

95-PCA-011

Department of Energy

Richland Operations Office P.O. Box 550 Richland, Washington 99352

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Mr. David L. Lundstrom Section Manager 200 Areas Nuclear Waste Program State of Washington Department of Ecology 1315 West 4th Avenue Kennewick, Washington 99336

Mr. Douglas R. Sherwood Hanford Project Manager U.S. Environmental Protection Agency 712 Swift Boulevard, Suite 5 Richland, Washington 99352

Dear Messrs. Lundstrom and Sherwood:

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION, FORM 3s, FOR EIGHT TREATMENT, STORAGE, AND DISPOSAL UNITS (WA7890008967)

Enclosed are 8 Hanford Facility Dangerous Waste Part A Permit Application (Part A) Form 3s. The 8 treatment, storage, and/or disposal (TSD) units are located in the 200 East and West Areas of the Hanford Facility and are used for the treatment, storage, and disposal of dangerous waste generated from various Hanford Facility operations. The 8 TSD units with their associated Part A, Form 3, and revision numbers are listed below:

- Double-Shell Tank (DST) System (TSD: S-2-3), Rev. 7
- 242-A Evaporator (TSD: T-2-6), Rev. 5

- 204-AR Waste Unloading Station (204-AR) (TSD: T-2-3), Rev. 3 Low-Level Burial Grounds (LLBG) (TSD: D-2-9), Rev. 7 Liquid Effluent Retention Facility (LERF) (TSD: S-2-8), Rev. 3
- 222-S Laboratory Complex (TSD: TS-2-1), Rev. 3
- Hanford Central Waste Complex (HCWC) (TSD: TS-2-4), Rev. 2
- T Plant Complex (TSD: T-2-7), Rev. 3



The 8 Part A, Form 3s, have been revised to add Dangerous Waste Numbers F039 (multi-source leachate) in support of efforts to begin operations at Trench 31 of the Low-Level Burial Grounds. Dangerous Waste Number F039 is a waste designation the Washington State Department of Ecology (Ecology) has adopted from 40 CFR Part 261, Appendix VII, by reference per Washington Administrative Code (WAC) 173-303-082(5).

The Part A, Form 3s, for the following TSD units have been revised to delete and add the identified dangerous waste numbers:

242-A Evaporator -

Deleted state-only WCO1 (Extremely Hazardous - carcinogenic)

204-AR Waste Unloading Station - Deleted state-only WCO1

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LLBG -

Deleted discarded chemical products P035, P052, P079, U013, U230, U231, U241, U242, and state-only WCOI

Added discarded chemical products P057, U248, U249, U328, U353, and U359

HCWC -

Deleted discarded chemical products P035, P052, P079, U013, U230, U231, U241, U242, and state-only WCO1

Added discarded chemical products P057, U248, U249, U328, U353, and U359

T Plant Complex -

Deleted state-only WCO1

Added discarded chemical products P057, P116, P118, P119, P120, P121, P122, P123, U248, U249, U328, U353, and U359

These changes to the Part A, Form 3, were made in compliance with WAC 173-303. These regulations require the submittal of a revised Part A, Form 3, that addresses the treatment, storage, and/or disposal of dangerous waste previously unidentified at a TSD unit operating under interim status.

Messrs. Lundstrom and Sherwood 94-PCA-011 95

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Should you have any questions regarding the 8 Part A, Form 3s, please contact Mr. C. E. Clark of the U.S. Department of Energy, Richland Operations Office on (509) 376-9333 or Mr. R. C. Bowman of the Westinghouse Hanford Company on (509) 376-4876.

Sincerely,

EAP:CEC

James D. Bauer, Program Manager
Office of Environmental Assurance,
Permits, and Policy
DOE Richland Operations Office

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William T. Dixon, Manager Environmental Services

Westinghouse Hanford Company

Enclosure:

Eight Hanford Facility Part A Permit Application, Form 3s

cc w/encl:

Administrative Records, H6-08

- D. Duncan EPA
- D. Nylander Ecology
- S. Price, WHC

cc w/o encl:

- R. Bowman, WHC
- B. Burke, CTUIR
- W. Dixon, WHC
- R. Jim, YIN
- D. Powaukee, NPT

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III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code *TO4*). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY

TO4

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The 242-A Evaporator is located in the 200 East Area of the Hanford Facility and is used to treat mixed waste from the Double-Shell Tank (DST) System by removing water and most volatile organics. Two waste streams leave the 242-A Evaporator following the treatment process. The first waste stream, the concentrated slurry (approximately 30 to 40 percent of the water is removed during evaporation along with a portion of the volatile organics), is pumped back into the DST System. The second waste stream, process condensate (containing a portion of the volatile organics removed from the mixed waste during the evaporation process), is routed through condensate filters for treatment before release to a retention basin (Liquid Effluent Retention Facility). Offgasses from the process are routed through a deentrainment unit, a prefilter, and high-efficiency particulate air filters before being discharged to the environment. The 242-A Evaporator is used to treat up to 230.000 gallons (871,000 liters) of mixed waste per day.

IV. DESCRIPTION OF DANGEROUS WASTES

- A. DANGEROUS WASTE NUMBER Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column 8 enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-0(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns 8, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV Ishown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

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Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) WA7890008967 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE (enter N DANGEROUS O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) 1. PROCESS CODES (enter) (enter code) coda) 1,400,000,000 P Treatment - Evaporation DO T04 Ι٥ D ס | ס ס | מ TTماماط 0 0 \top DO D D D $\mathsf{T}\mathsf{T}$ מ ln. TT D T D D \top D D D D $\mathsf{T}\mathsf{T}$ lolo TT D D lD 'n dl

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Rev. 5, 11/04/94, Page 4 of 9

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NOTE: Photocopy this page before completing if you have more than 26 wastes to list. 1.D. NUMBER (entered from page 1) W A 7 B 9 0 0 0 8 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE (enter code) A. N DANGEROUS O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (enter code) T 1 T04 P Treatment - Evaporation (cont) WITIO T 0 W c 0 2 P W 0 1 T P 0 2 |F|0|0|1 F |0|0|2 loi 0 3 0 0 4 F 5 0 0 Included With Above 0 3 9 12 13 14 15 16 17 \Box 18 \top 19 20 22 23 TT 24 111 25 $\mathsf{T}\mathsf{T}$ 26

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IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The 242-A Evaporator is used to treat mixed waste from the Double-Shell Tank System. Two waste streams leave the 242-A Evaporator following the treatment process: a concentrated slurry waste stream that is routed to the Double-Shell Tank System and a process condensate effluent waste stream that is routed to the Liquid Effluent Retention Facility.

The concentrated slurry is regulated as a dangerous waste due to corrosivity (D002) and toxicity, and is regulated as an extremely hazardous waste (EHW) due to toxicity under the mixture rule. This mixed waste stream is considered corrosive because the pH of the waste exceeds 12.5 standard units. This mixed waste stream also is characterized as toxic due to the concentrations of chromium (D007), lead (D008), cadmium (D006), and silver (D011), and is EHW toxic due to the concentrations of nitrite and hydroxide ions.

The process condensate effluent is regulated as a dangerous waste due to the toxicity of ammonia and the presence of nonspecific waste sources F001 through F005, and F039. Multi-source leachate (F039) is included as a waste derived from nonspecific source wastes F001 through F005.

The list of dangerous constituents under item IV.A includes toxic constituents of cadmium (D006) and silver (D011). These constituents have not been detected in the waste, but knowledge of the process providing waste to the 242-A Evaporator indicates the strong possibility that these constituents will be in the waste. The list of Toxicity Characteristics Leaching Procedure constituents (WT01, WT02, WC02, WP01, and WP02) under item IV.A have not been detected in the waste; however, the potential exists for treating these constituents at the 242-A Evaporator. All other waste listed is based on analytical data. The annual waste quantity listed under item IV.B. was calculated using an operating schedule of 365 days per year, and a specific gravity for the waste of 2.0. This calculation was done to provide a maximum estimate of annual waste quantity.

quantity listed under item IV.B. was calculated using an operating schedule of 365 days per year, and a specific gravity for the waste of 2.0. This calculation was done to provide a maximum estimate of annual waste quantity.
V. FACILITY DRAWING
All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).
VI. PHOTOGRAPHS
All existing facilities must include photographs (serial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).
VII. FACILITY GEOGRAPHIC LOCATION This information is provided on the attached drawings and photos.
LATITUDE (degrees, minutes, & seconds) LONGITUDE (degrees, minutes, & seconds)
VIII. FACILITY OWNER
A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General information", place an "X" in the box to the left and skip to Section IX below. B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:
1. NAME OF FACILITY'S LEGAL OWNER 2. PHONE NO. (area code & no.) 3. STREET OR P.O. BOX 4. CITY OR TOWN 5. ST. 6. ZIP CODE
IX. OWNER CERTIFICATION
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, jectualing the possibility of tipe and imprisonment.
NAME (print or type) John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office X. OPERATOR CERTIFICATION DATE SIGNED 1// 99
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.
NAME (print or type) SIGNATURE DATE SIGNED
SEE ATTACHMENT

to be distributed in

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

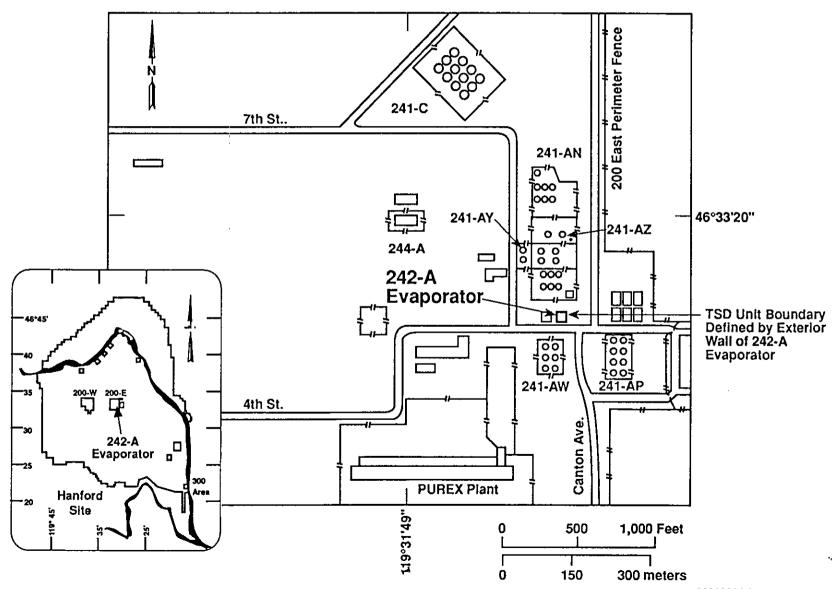
Jokh D. Wagoner, Manager U. B. Department of Energy Richland Operations Office

a. Remar Frigo A. LaMar Trego, President Westinghouse Hanford Company

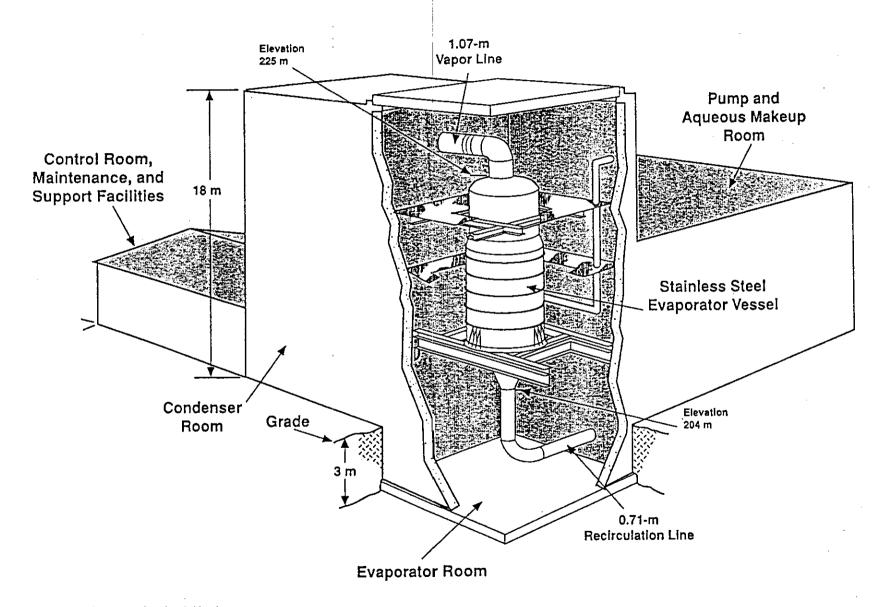
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242-A Evaporator 11/04/94, Page 7 of 9

242-A Evaporator Site Plan



242-A Evaporator



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242-A EVAPORATOR



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	.ANI			WELL	D80 D81	GALLONS OR ACRE-FEET (th	e vo	lume						01	THE	R (Use for ph	ysical, chemi	cal, TO4	GALLON	IS P	ER	DA۱	OR		
						would cover or depth of one for OR HECTARE-I	oot)		a					pre	OCO	al or biologica sses not occu	irring in tanki	В,	LITERS	PER	DA	lΥ			
١	ANI OCE	D /	APPL DIS	ICATION POSAL	D82 D83	ACRES OR HE GALLONS PER	CTA	RES						ate	ors.	ce impoundme Describe the pace provided	processes i	n							
l				MPOUNDMENT	D84	LITERS PER DA	٩Y								- 4	paco provided	, Dection in	,							
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	JAL		NS F	EXAMPLE FOR CO	MPLETIN	G SECTION III /s	how	n in li	ne nu	mher	s X	 1 and	Y- 2		Jav	d: A facility !	ar two etas:	sa tanka							
	T-			noid 200 ganons a	nu ine o	ther can hold 400 SIGN CAPACITY) ga	lons.	The	facilit	ty als	o has	an	inc	ine	rator that can	burn up to 2	O gallons	per hour.				,		
լլ ս		CES	SS	<u> </u>		JIGH CAI ACITY	2.	UNIT	, 	FOR FFICE		L U	A.	PR ESS OD	lo- S	В.	. PROCESS	DESIGN C	APACITY	72	1.15	NIT		FO	R
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Continued from the front.

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code *104*). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

The Double-Shell Tank (DST) System is used for the interim storage (S02) of liquid mixed waste generated on the Hanford Facility. Several operating units in the 200 East and West Areas transfer liquid mixed waste through buried double-encased transfer lines to designated underground DSTs. Other types of liquid mixed waste in the DST System are received from railroad car transfers, tank truck transfers, the Single-Shell Tank System, and smaller temporary storage tanks.

Pretreatment will be performed as necessary at a future unit and/or at the 242-A Evaporator. The low-level liquid mixed waste is accumulated in the DST System until the waste is transferred for treatment to a proposed low-level vitrification plant in preparation for final disposal. The high-level liquid mixed waste from the DST System will be treated at the Hanford Waste Vitrification Plant (HWVP) and shipped to an offsite waste facility.

The tanks in the DST System are considered treatment units (T01) because chemicals can be added for corrosion control, the waste can be mixed using equipment such as airlift circulators or pumps, and water can be evaporated from the aging waste tanks by adding heat. It is possible that up to 40,041,000 gallons (151,571,200 liters) of waste can be treated per day.

The tanks in the DST System are shown on the Tank Table (pages 3 and 4), which includes tank numbers, locations, design capacities, and operational dates. The specific TSD unit boundaries will be defined in the Double-Shell Tank System Dangerous Waste Permit Application.

IV. DESCRIPTION OF DANGEROUS WASTES

- A. DANGEROUS WASTE NUMBER Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic comtaminants of those dangerous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	ODE
POUNDS		KILOGRAMSMETRIC TONS	. K

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other Dengerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

																		•	D. PROCESSES
7-ZE	W.	AS.	ΥE	OUS NO. ode)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	S	UNIT MEA URE Inter	- 1		t	i. P		CES		ODE	s			2. PROCESS DESCRIPTION (if a coda is not entered in D(1))
X-1	κ	o	5	4	 900		P	1	TO	3	٦	8	0	1	Т	Τ	τ	1	
X-2	D	0	o	2	400		P	7	τ_0	3	٦	8	0	_1_	Τ-		Τ	1	
X-3	D	0	o	1	100		P	1	TO	3	۵	8	0	1	1		Т	Т	
X-4	D	0	0	2			1	7	T^{0}	3	٦	8	0	T	1	Τ	T	1	included with above

TANK TABLE (Sheet 1 of 2)

1. There are twenty-four 1,200,000-gallon nonaging* DSTs.

Tank Number	Location	Design Capacity (gallons)	Operation Date
241-AN-101	200 East Area	1,200,000	9/81
241-AN-102	200 East Area	1,200,000	9/81
241-AN-103	200 East Area	1,200,000	9/81
241-AN-104	200 East Area	1,200,000	9/81
241-AN-105	200 East Area	1,200,000	9/8t
241-AN-106	200 East Area	1,200,000	9/81
241-AN-107	200 East Area	1,200,000	9/81
241-AP-101	200 East Area	1,200,000	10/86
241-AP-102	200 East Area	1,200,000	10/86
241-AP-103	200 East Area	1,200,000	10/86
241-AP-104	200 East Area	1,200,000	10/86
241-AP-105	200 East Area	1,200,000	10/86
241-AP-106	200 East Area	1,200,000	10/86
241-AP-107	200 East Area	1,200,000	10/86
241-AP-108	200 East Area	1,200,000	10/86
241-AW-101	200 East Area	1,200,000	8/80
241-AW-102	200 East Area	1,200,000	8/80
241-AW-103	200 East Area	1,200,000	8/80
241-AW-104	200 East Area	1,200,000	8/80
241-AW-105	200 East Area	1,200,000	8/80
241-AW-106	200 East Area	1,200,000	8/80
241-SY-101	200 West Area	1,200,000	4/77
241-SY-102	200 West Area	1,200,000	4/77
241-SY-103	200 West Area	1,200,000	4/77

^{*} Nonaging is a waste that is not neutralized current acid waste.

2. There are six proposed 1,160,000-gallon MWTF DSTs.

Tank Number	Location	Design Capacity (gallons)	Operation Date
241-HN-101	200 East Area	1,160,000	12/98
241-HN-102	200 East Area	1,160,000	12/98
241-HN-103	200 East Arca	1,160,000	12/98
241-HN-104	200 East Area	1,160,000	12/98
241-SN-101	200 West Area	1,160,000	2/98
241-SN-102	200 West Area	1,160,000	2/98

TANK TABLE (Sheet 2 of 2)

3. There are four aging* waste DSTs.

Tank Numbers	Location	Design Capacity (gallons)	Operation Date
241-AY-101	200 East Area	1,000,000	4/71
241-AY-102	200 East Area	1,000,000	4/76**
241-AZ-101	200 East Area	1,000,000	11/76
241-AZ-102	200 East Area	1,000,000	11/76

^{*} Aging waste is neutralized current acid waste generated from the PUREX Plant.

4. There are six tanks in the waste transfer vaults.

Tank Number	Location	Design Capacity (gallons)	Operation Date
244-AR-001	200 East Area	43,000	1977
244-AR-002	200 East Area	43,000	1977
244-AR-003	200 East Area	4,785	1977
244-AR-004	200 East Area	4,785	1977
244-CR-003	200 East Area	14,660	1946
244-CR-011	200 East Area	45,000	1946

5. There is one 800-gallon tank in a transfer building.

Tank Number	Location	Design Capacity (gallons)	Operation Date
241-EW-151	200 East Area Vent Station	800	11/55*

[•] Estimated operational date.

6. There are five double-contained receiver tanks.

Tank Number	Location	Design Capacity (gallons)	Operation Date
244-BX	200 East Area	31,000	1983
244-TX	200 West Area	31,000	12/81
244-U	200 West Area	31,000	N/A
244-A	200 East Area	16,280	1975
244-S	200 West Area	20,280	1987

^{**} Estimated operational date.

Double-Shell Tank System Rev. 7, 11/04/94, Page 5 of 48

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 westes to list. I.D. NUMBER (entered from page 1) W A 7 8 9 0 0 0 8 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE lenter code) A. N DANGEROUS O WASTE NO. LZE B. ESTIMATED ANNUAL QUANTITY OF WASTE 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) 1. PROCESS CODES (enter) (enter code) 1 olol P \$02 n 1,000,420,000 ŤOÌ Storage/Chemical Treatment-Evap. 2 D 0 0 2 3 ۵ 0 0 3 4 D 0 0 4 D 0 0 5 6 1010 6 D old 0 7 DOO 8 | old 0 9 10 D. 0 1 0 \sqcap 11 0 D 1 1 12 D 0 1 8 $\mathsf{T}\mathsf{T}$ 13 9 D 0 1 7 2 2 מו 0 D 0 2 8 | 16 D 0 2 9 T 17 003 0 18 D 0 3 3 П П 19 0 3 4 D 20 0 3 D 5 21 D 03 6 $\mathsf{T}\mathsf{T}$ 22 3 ם 0 8 \top ه ا ما 3 9 24 |D||0||4||0 25 D 0 4 1 4

Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) WA7890008967 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE (enter code) N DANGEROUS O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (enter code) To1 P \$02 Storage/Chemical Treatment-Evap. 0 Т 2 0 C 0 2 0 Р 1 W P 0 0 0 1 2 0 0 8 3 F 0 0 0 0 4 0 0 5 0 3 9 11 Included With Above 12 T 13 15 16 17 18 19 20 21 22 23 24 25 26

Continued from the front.

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The types of liquid mixed waste stored, chemically treated, and evaporated in the DST System are as follows:

- Dilute miscellaneous waste generated on the Hanford Facility (100, 200, 300, 400 Areas, and the 340 Complex)
- Supernate and transuranic studges that consist of neutralized cladding removal waste generated during Plutonium-Uranium Extraction (PUREX) Plant headend operations, and waste generated during the Plutonium Finishing Plant processing
- Concentrated DST waste (slurry) from the 242-A Evaporator
- Concentrated complexed waste and complexed waste generated from B Plant processing
- Neutralized current acid waste from the first extraction column at the PUREX Plant
- Liquid waste from the Single-Shell Tank System
- Waste from the Grout Treatment Facility
- T Plant Complex decontamination activities
- Waste from the 204-AR Waste Unloading Station
- Leachate resulting from Hanford Facility land disposal and surface impoundment operations.

It is possible that any of these waste types could be stored and/or treated in any of the nonaging or aging DSTs.

The list of dangerous waste under iter have not been detected in the waste, strong possibility that these constituents and under item IV.A have not been constituents. Multi-source leachate F005. All other waste listed on this	but knowledge of the pr uents will be in the wa detected in the waste; (F039) is included as a	ocesses providing the ste. Toxicity charact however, the DST Syste waste derived from no	waste to the DST Sys eristic leaching pro m has the potential	tem indicates the cedure constituents to store these	
V. FACILITY DRAWING					
All existing facilities must include in the space provided of	on page 5 a scale drawing of	the facility (see Instructions f	for more detail).		
VI. PHOTOGRAPHS		-			
All existing facilities must include photographs facilal or sites of future storage, treatment or disposal areas (see	instructions for more detail).			•	
VII. FACILITY GEOGRAPHIC LOCATION	his information is p	provided on the atta	ached drawings a	nd photos.	
LATITUDE (degrees, minutes, & seconds) LONGITUDE (degrees, minutes, & seconds)					
				-	
VIII. FACILITY OWNER					
A. If the facility owner is also the facility operator as below. B. If the facility owner is not the facility operator as it.	listed in Section VII on Form 1	, complete the following item		left and skip to Section IX	
1, NAME	OF FACILITY'S LEGAL OWNE	R		HONE NO. (erea code & no.)	
3. STREET OR P.O. BOX		4, CITY OR TOWN	5, ST.	6. ZIP CODE	
IX. OWNER CERTIFICATION					
I certify under penalty of law that I have personally exami inquiry of those individuals immediately responsible for ob there are significant penalties for submitting false informa	taining the information, I belie	eve that the submitted inform	and all attached document nation is true, accurate, and	s, and that based on my I complete. I am aware that	
NAME (print or type) John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	John V.	Wagoun	DATE SIGNE	1/94	
X. OPERATOR CERTIFICATION			<u> </u>		
I certify under penalty of law that I have personally exami inquiry of those individuals immediately responsible for ob there are significant penalties for submitting false informa	ined Ind am familiar with the taining the information, I belie tion, including the possibility	information submitted in this eve that the submitted inform of fine and imprisonment.	and all attached document nation is true, accurate, and	s, and that based on my i complete. I am aware that	
NAME (print or type)	SIGNATURE	· · · · · · · · · · · · · · · · · · ·	DATE SIGNE	D	
SEE ATTACHMENT					

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

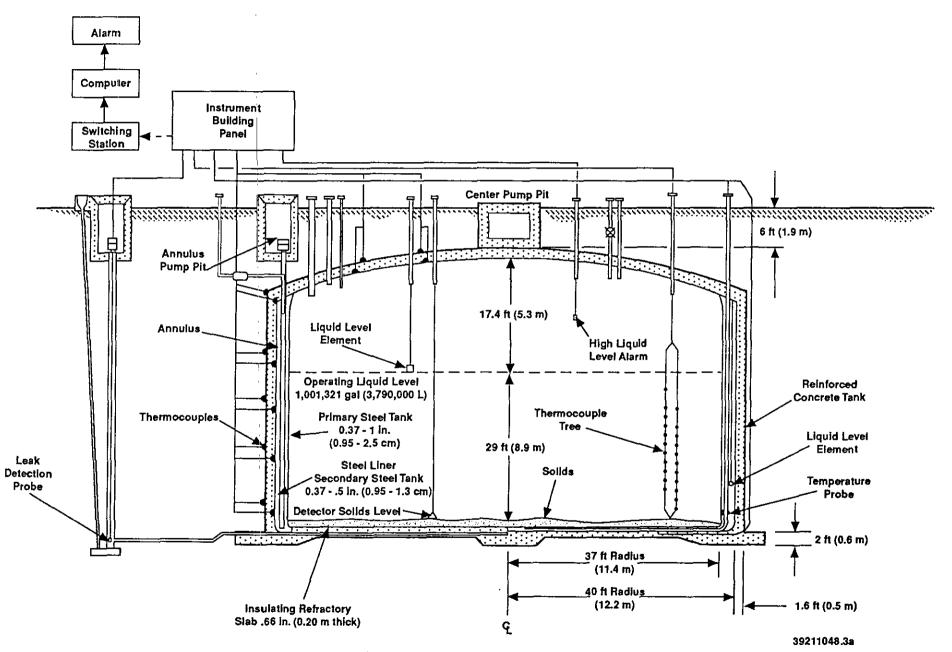
Owner/Operator

John D. Wagoner, Manager U.S. Department of Energy Rychland Operations Office 11/4/94 Date

Co-operator

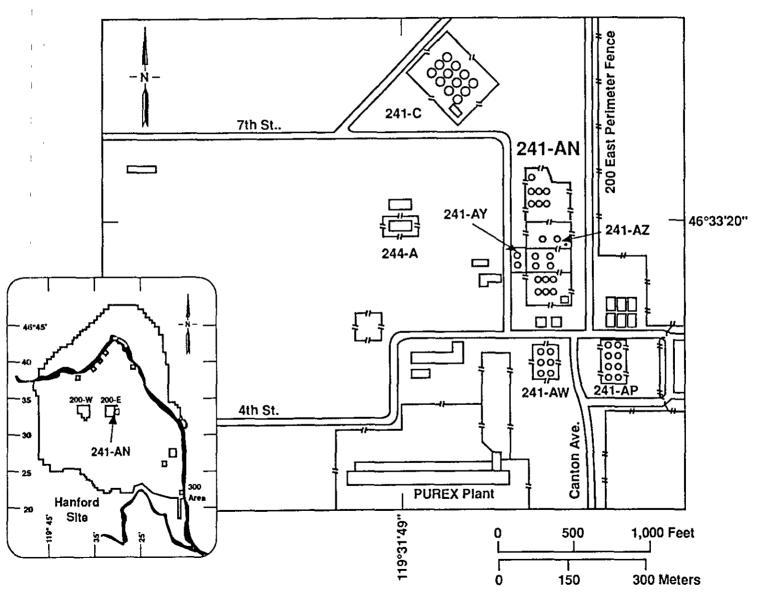
A. LaMar Trego, President Westinghouse Hanford Company 9/20/94 Date

Typical Nonaging Waste Double-Shell Tank

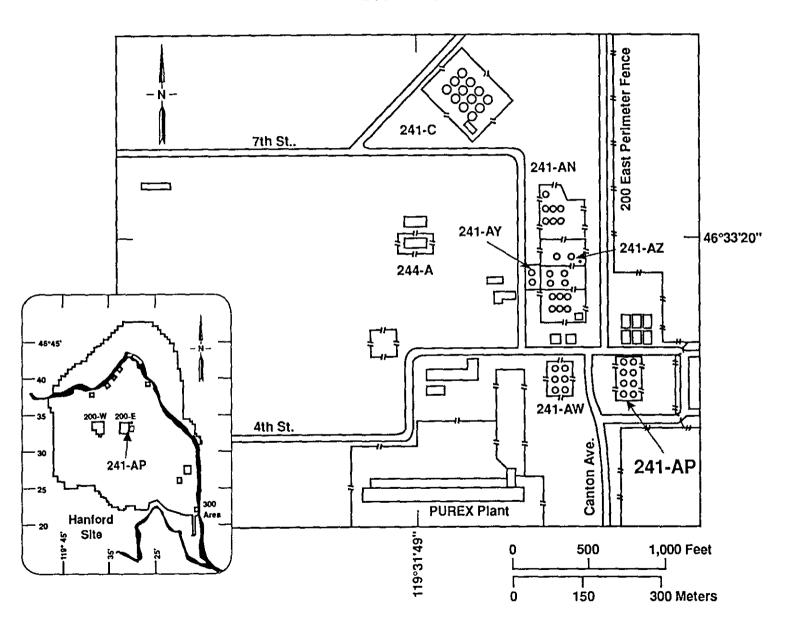


Rev. 7, 11/04/94, Page 9 of 48

241-AN Double-Shell Tank Site Plan



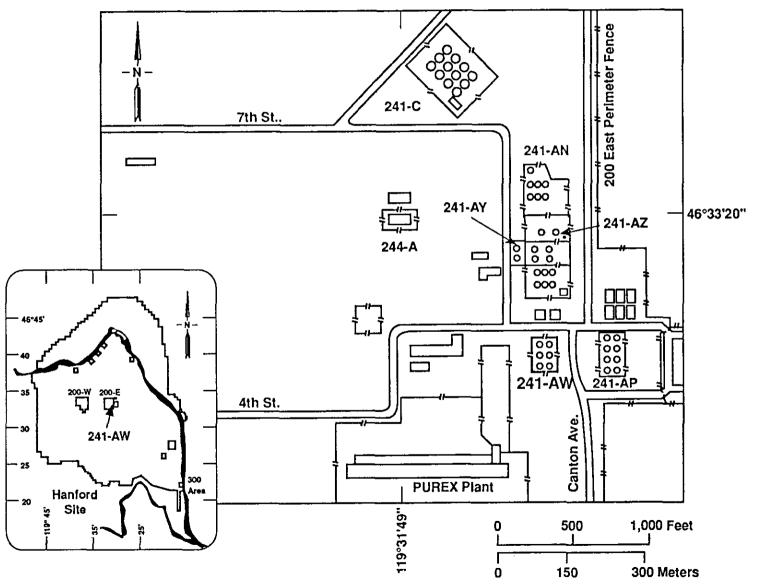
241-AP Double-Shell Tank Site Plan



H9408030.18

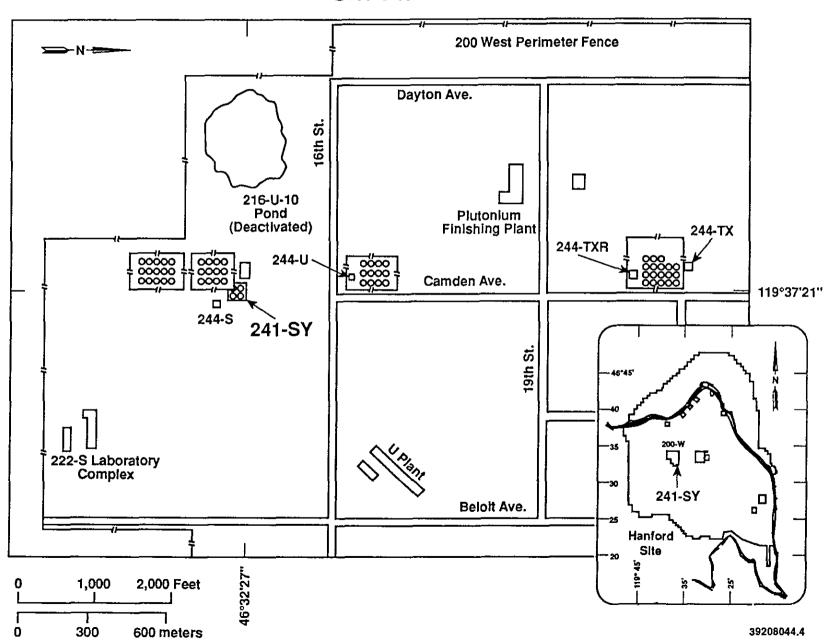
Rev. 7, 11/04/94, Page 11 of 48

241-AW Double-Shell Tank Site Plan



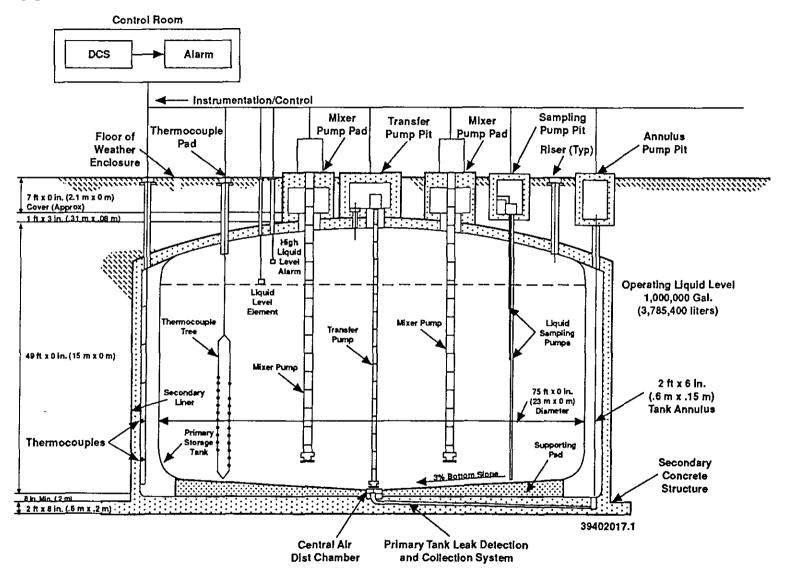
H9408030.19

241-SY Double-Shell Tank Site Plan



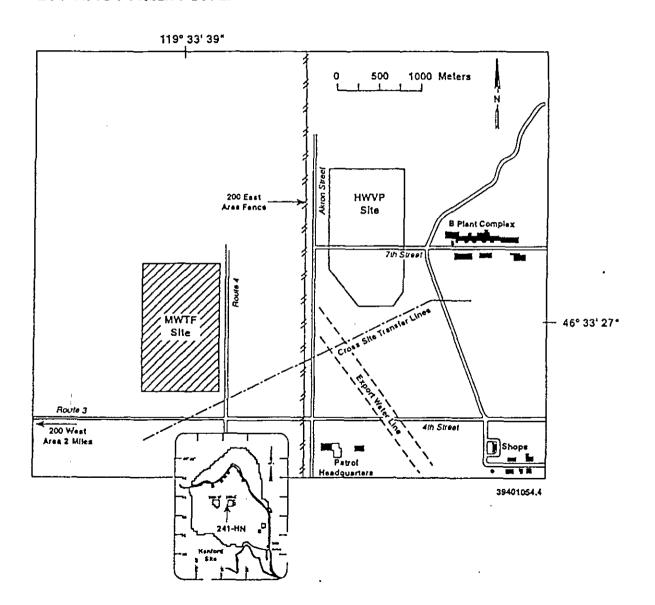
Rev. 7, 11/04/94, Page 13 of 48

Typical Multi-Function Waste Tank Facility Double-Shell Tank



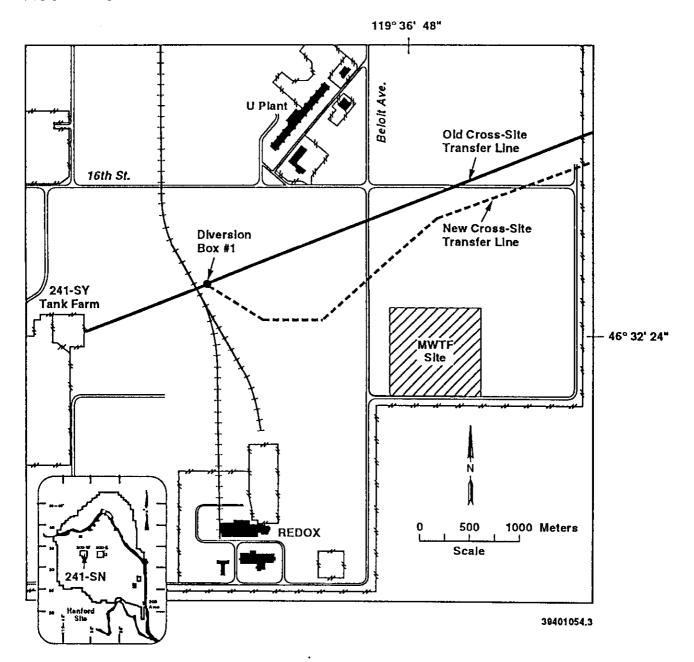
Rev. 7, 11/04/94, Page 14 of 48

MULTI-FUNCTION WASTE TANK FACILITY 200 EAST AREA SITE

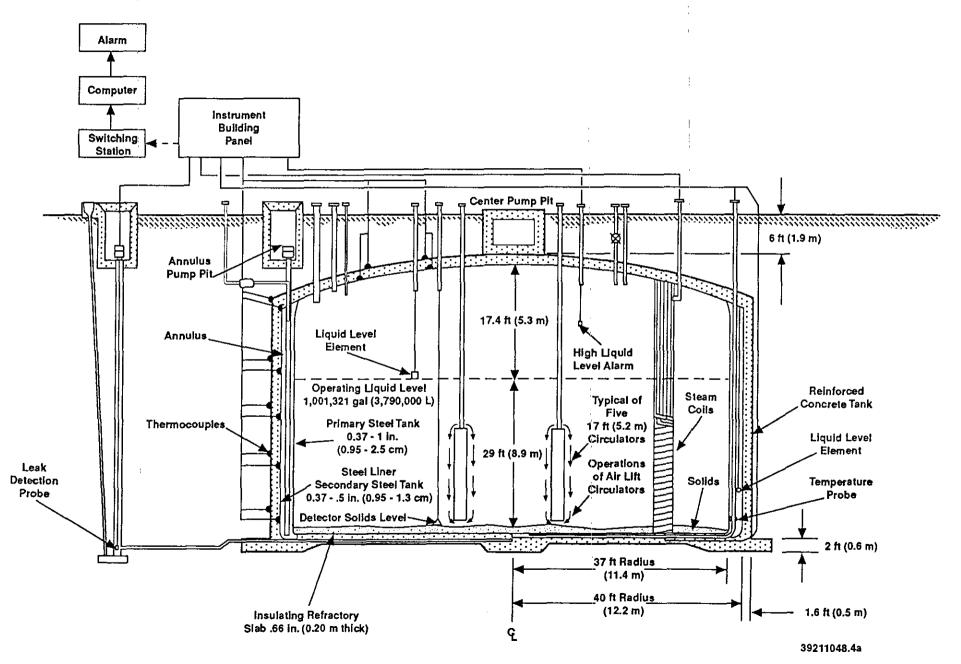


Rev. 7, 11/04/94, Page 15 of 48

MULTI-FUNCTION WASTE TANK FACILITY 200 WEST AREA SITE

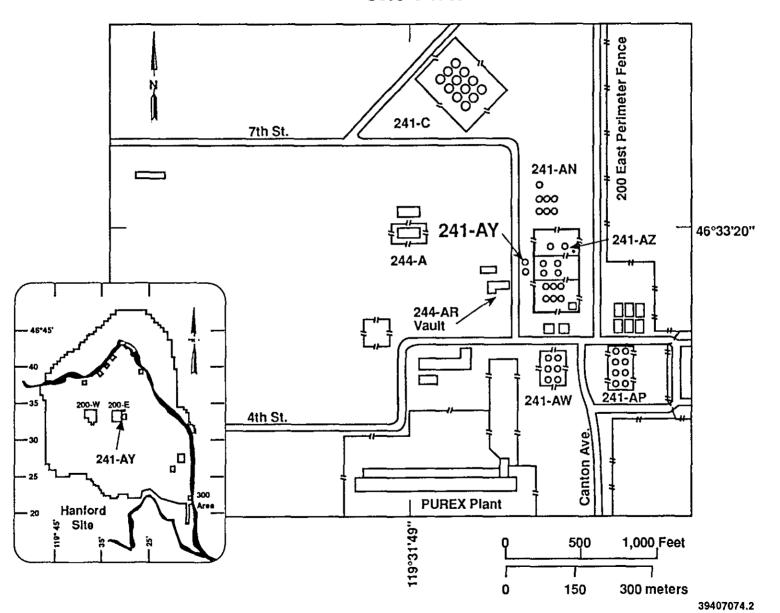


Typical Aging Waste Double-Shell Tank



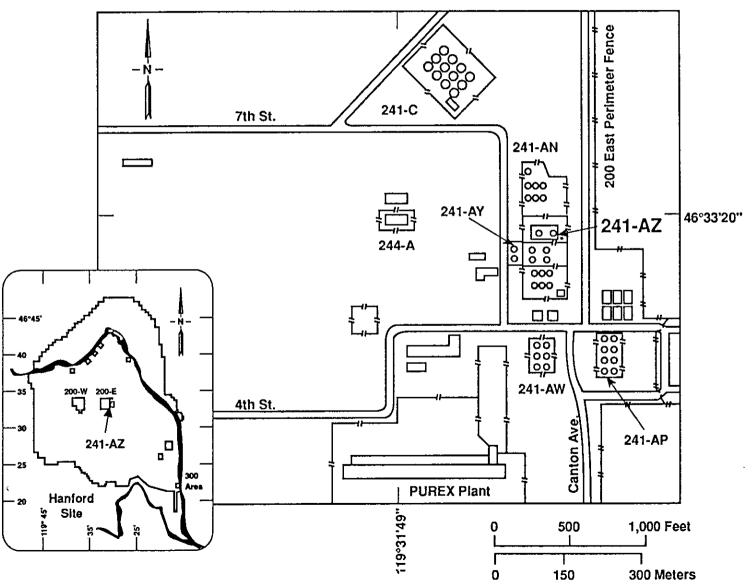
Rev. 7, 11/04/94, Page 17 of 48

241-AY Aging Waste Double-Shell Tank Site Plan



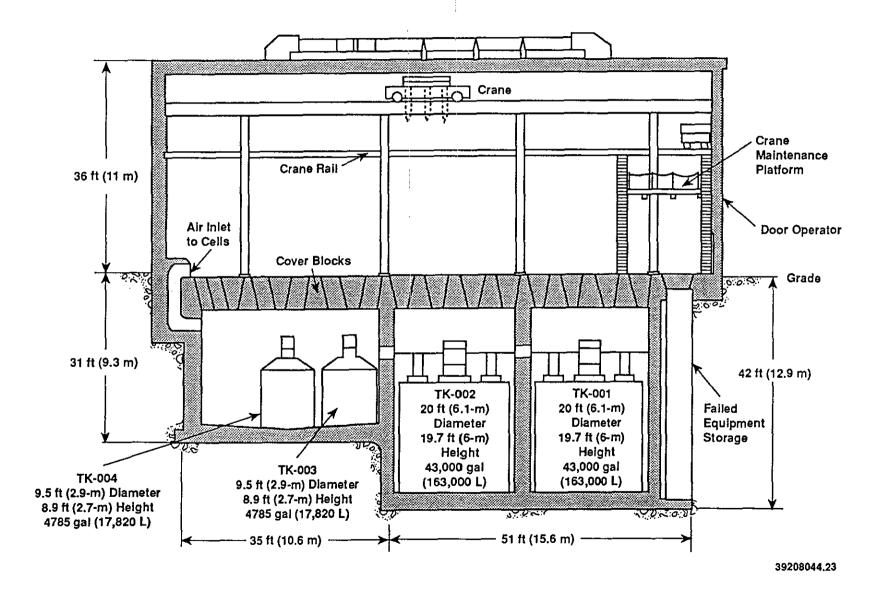
Rev. 7, 11/04/94, Page 18 of 48

241-AZ Aging Waste Double-Shell Tank Site Plan



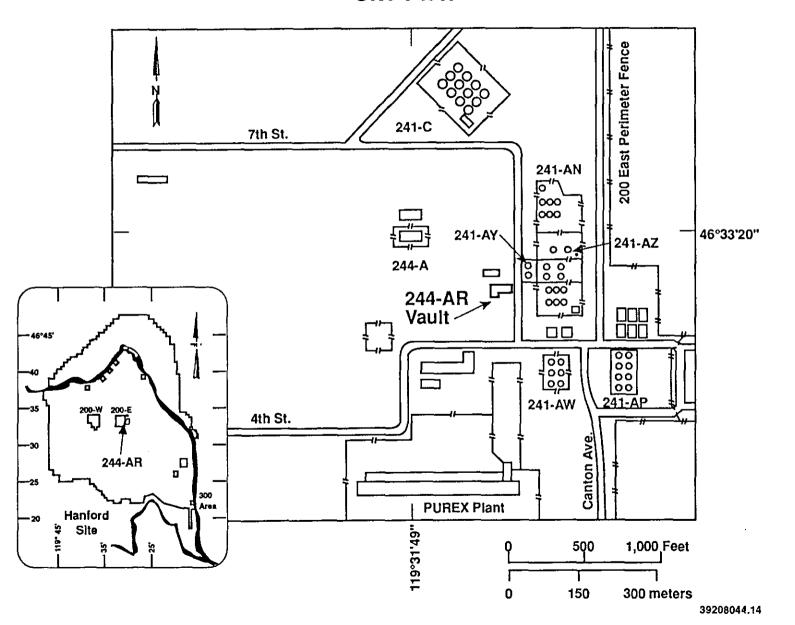
H9408030.20

244-AR Vault



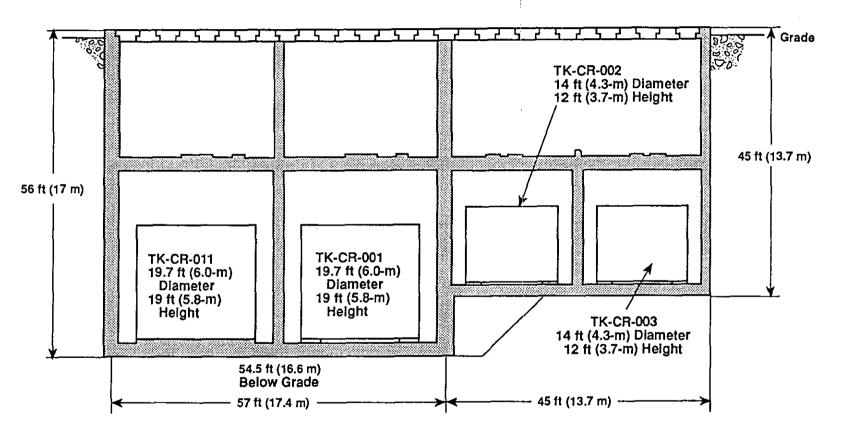
Double-Shell Tank System . 7, 11/04/94, Page 20 of 48

244-AR Vault Site Plan



Rev. 7, 11/04/94, Page 21 of 48

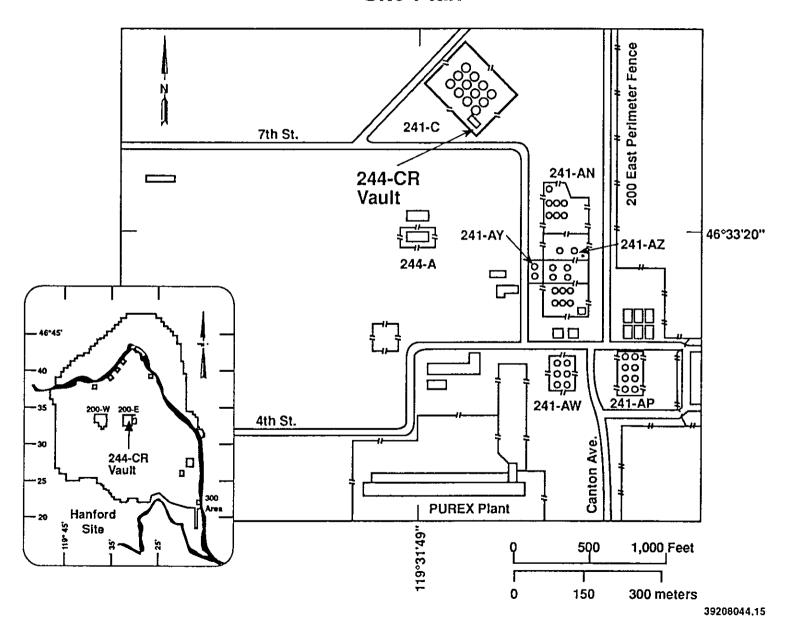
244-CR Vault



39208044.22

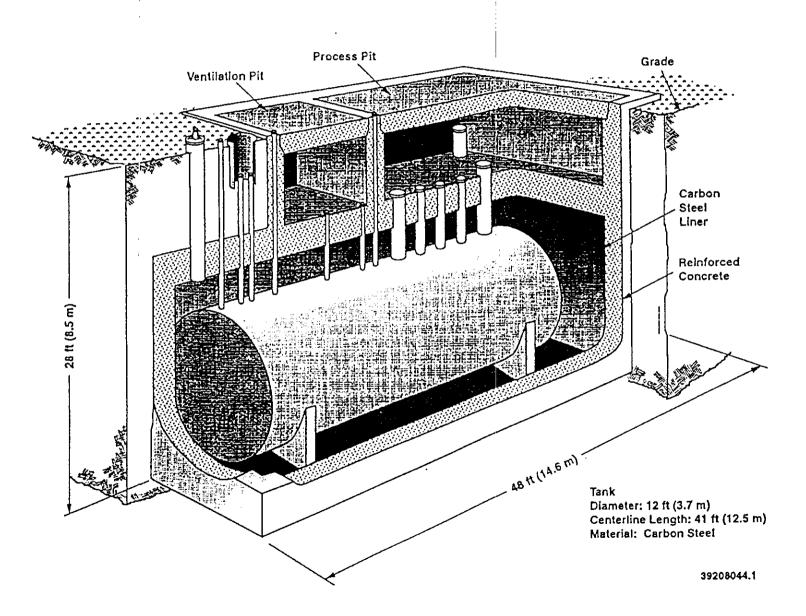
Rev. 7, 11/04/94, Page 22 of 48

244-CR Vault Site Plan

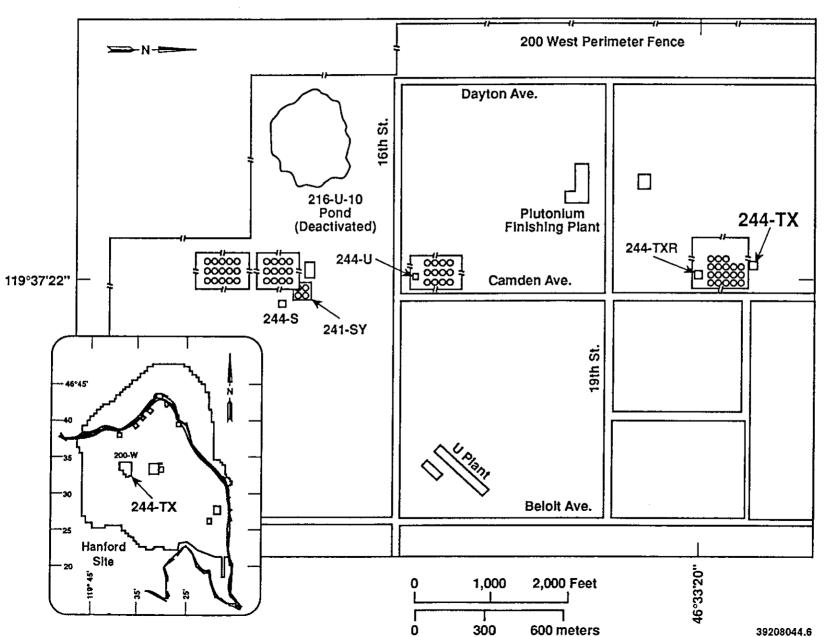


Rev. 7, 11/04/94, Page 23 of 48

TYPICAL DOUBLE-CONTAINED RECEIVER TANK

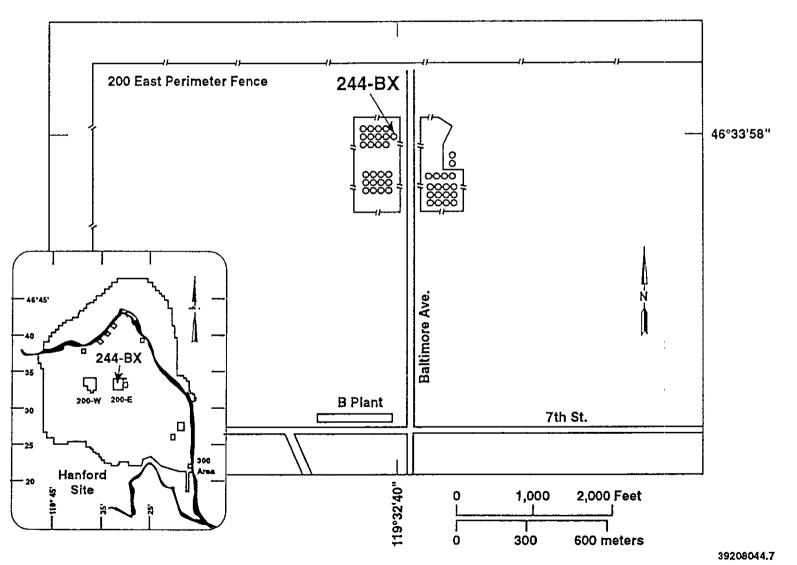


244-TX Double-Contained Receiver Tank Site Plan



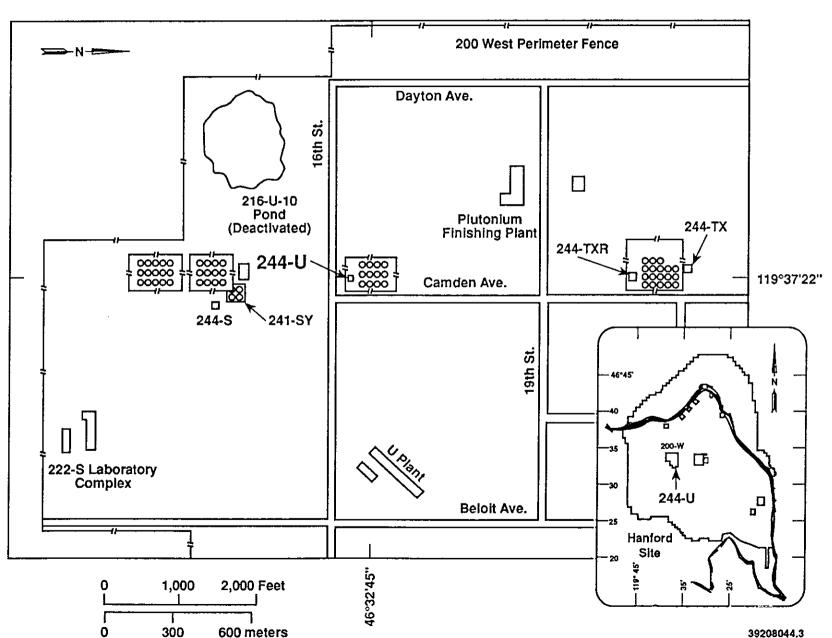
Rev. 7, 11/04/94, Page 25 of 48

244-BX Double-Contained Receiver Tank Site Plan



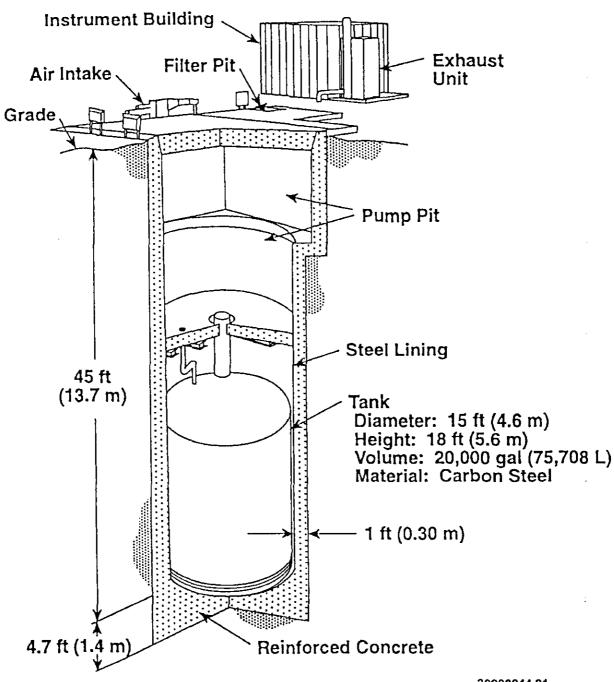
Rev. 7, 11/04/94, Page 26 of 48

244-U Double-Contained Receiver Tank Site Plan



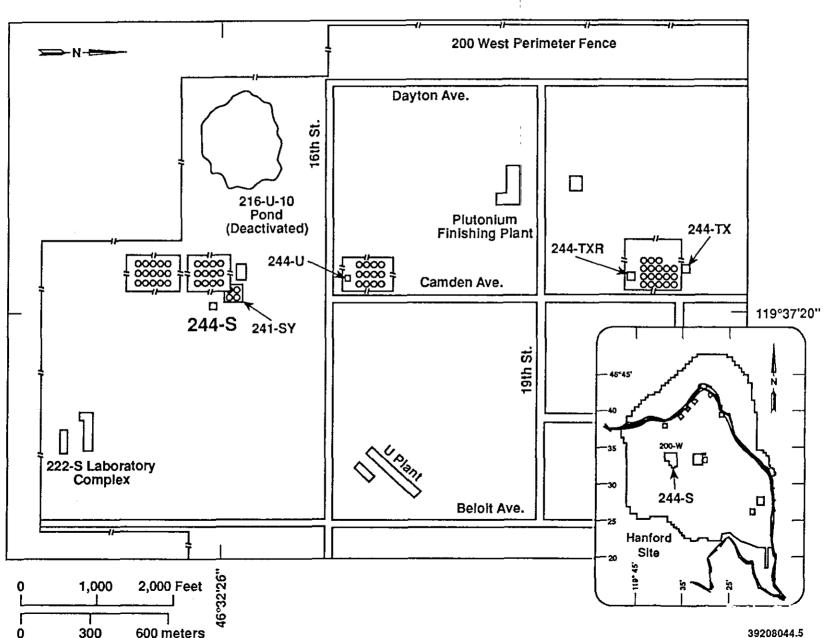
Rev. 7, 11/04/94, Page 27 of 48

Typical Double-Contained Receiver Tank



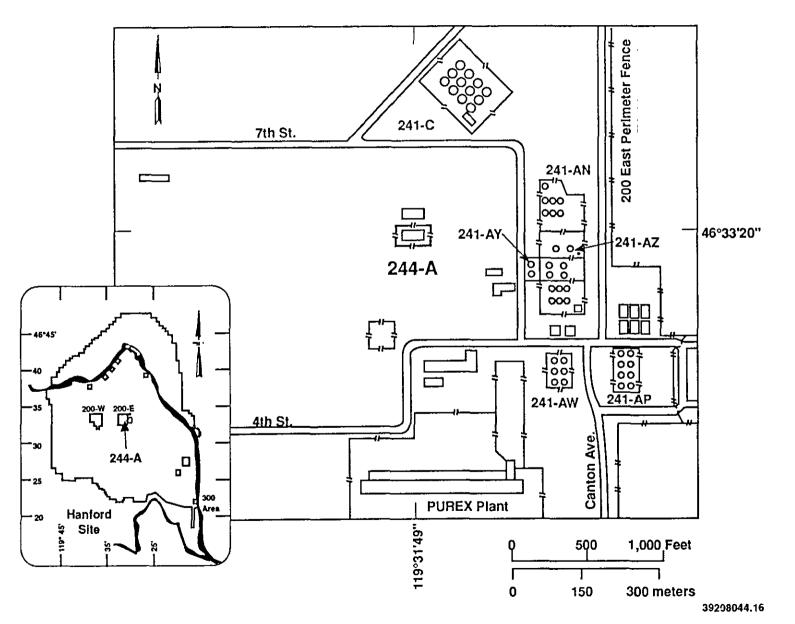
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244-S Double-Contained Receiver Tank Site Plan



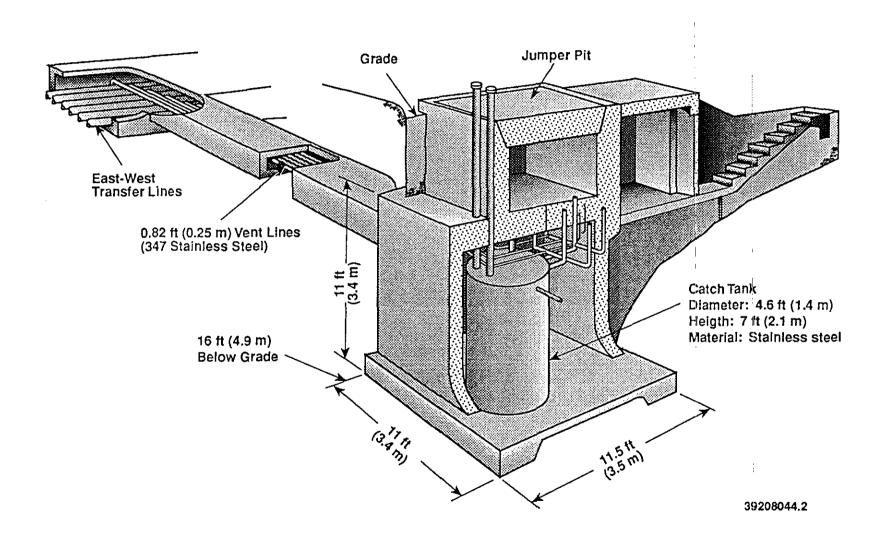
Rev. 7, 11/04/94, Page 29 of 48

244-A Double-Contained Receiver Tank Site Plan



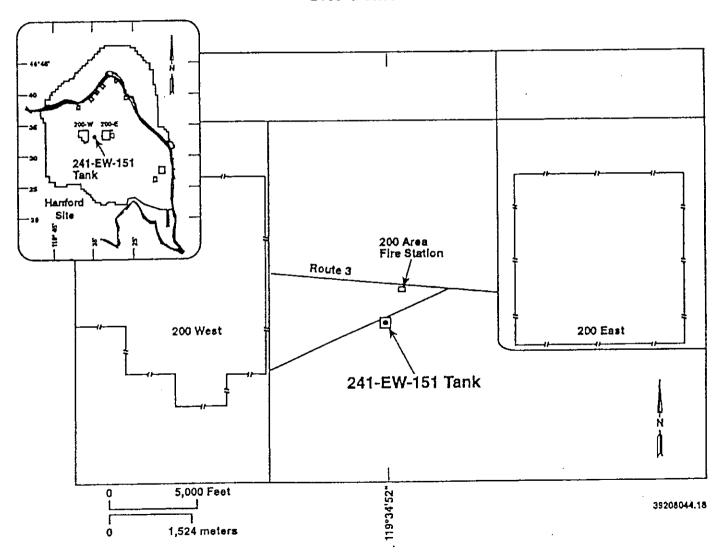
Rev. 7, 11/04/94, Page 30 of 48

241-EW-151 TANK (200 AREA EAST-WEST VENT STATION)



Rev. 7, 11/04/94, Page 31 of 48

241-EW-151 Tank (200 Area East-West Vent Station) Site Plan



241-AN DOUBLE-SHELL TANKS



46°33'25" 119°31'37"

8704135-8CN (PHOTO TAKEN 1987)

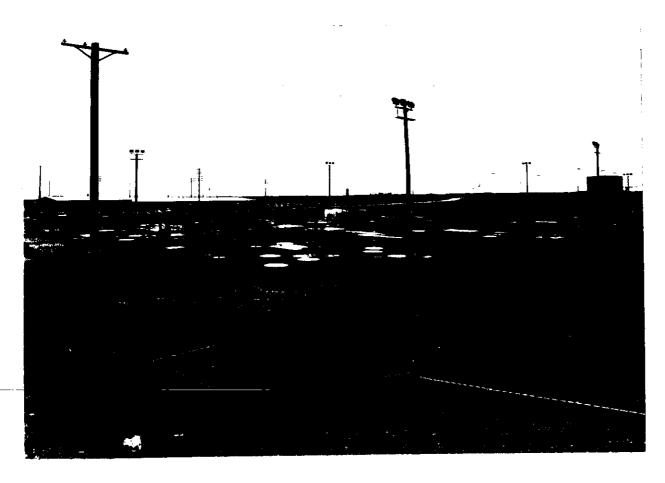
241-AP DOUBLE-SHELL TANKS



46°33'7" 119°31'38"

8704135-12CN (PHOTO TAKEN 1987)

241-AW DOUBLE-SHELL TANKS



46°33'7" 119°31'35"

8704135-11CN (PHOTO TAKEN 1987)

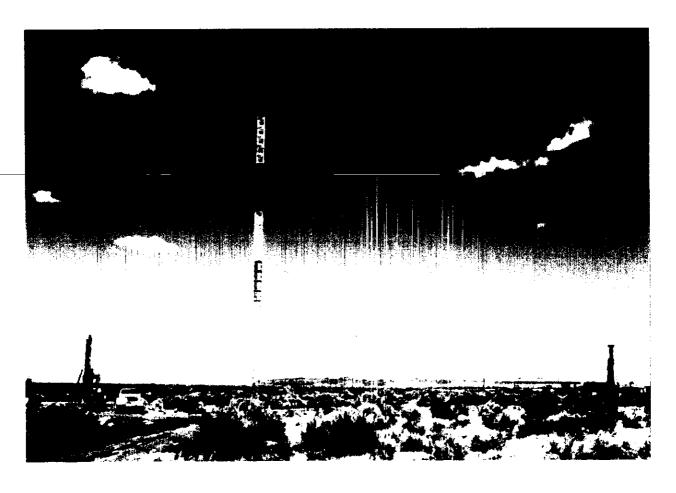
241-SY DOUBLE-SHELL TANKS



46°32'27" 119°37'21"

8704135-2CN (PHOTO TAKEN 1987)

MULTI-FUNCTION WASTE TANK FACILITY 241-HN DOUBLE-SHELL TANKS SITE



46°33'27" 119°33'39" 93081137-1CN (PHOTO TAKEN 1993)

9-14-7-1552

MULTI-FUNCTION WASTE TANK FACILITY 241-SN DOUBLE-SHELL TANKS SITE

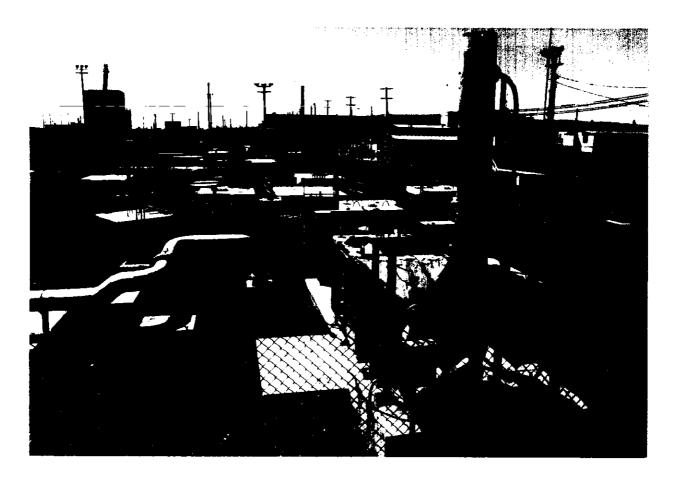


46°32'24" 119°36'48"

93120508-1CN (PHOTO TAKEN 1993)

Double-Shell Tank System Rev. 7, 11/04/94, Page 39 of 48

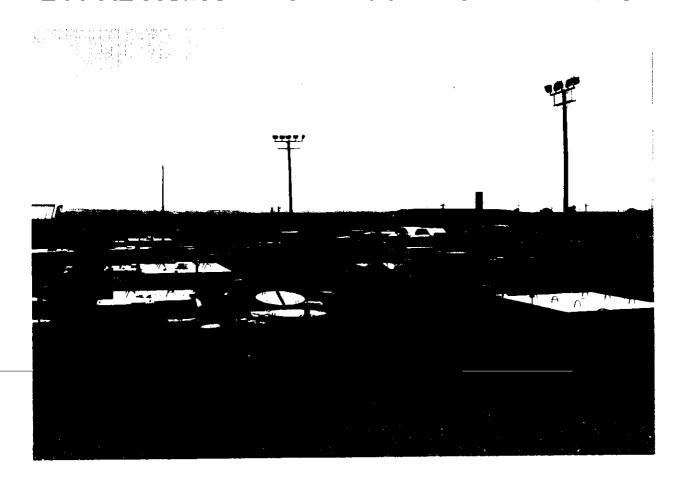
241-AY AGING WASTE DOUBLE-SHELL TANKS



46°33'17" 119°31'39"

8704135-10CN (PHOTO TAKEN 1987)

241-AZ AGING WASTE DOUBLE-SHELL TANKS

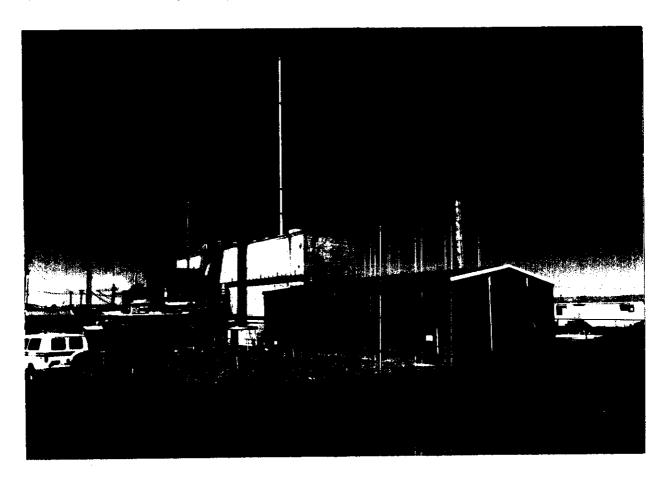


46°33'19" 119°31'35"

8704135-9CN (PHOTO TAKEN 1987)

The house of the

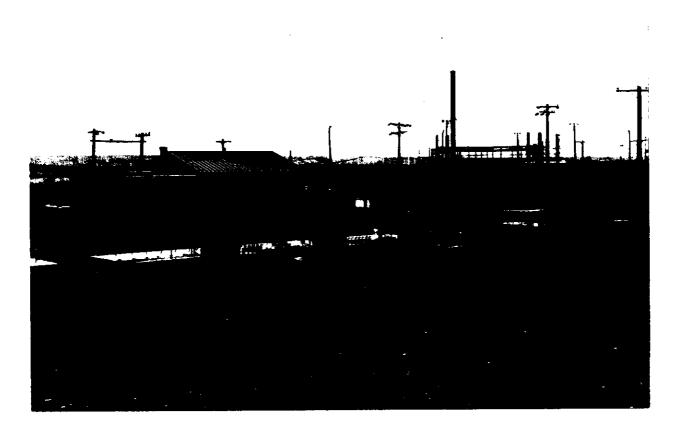
244-AR VAULTS



46°33'13" 119°31'45"

8704135-16CN (PHOTO TAKEN 1987)

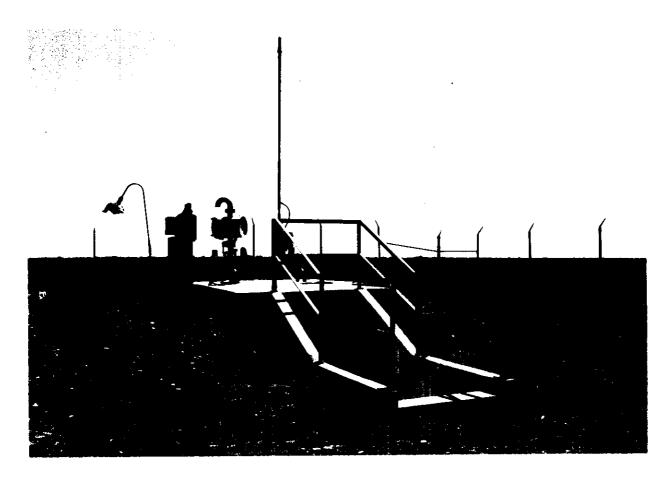
244-CR VAULTS



46°33'26" 119°31'47"

8704135-14CN (PHOTO TAKEN 1987)

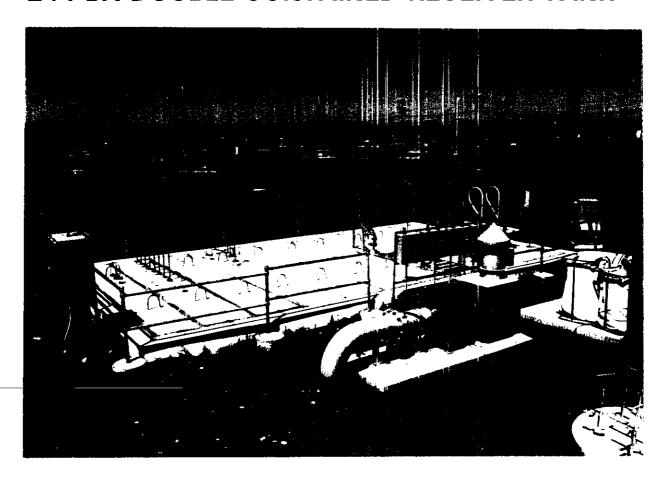
241-EW-151 TANK



46°32'46" 119°34'52"

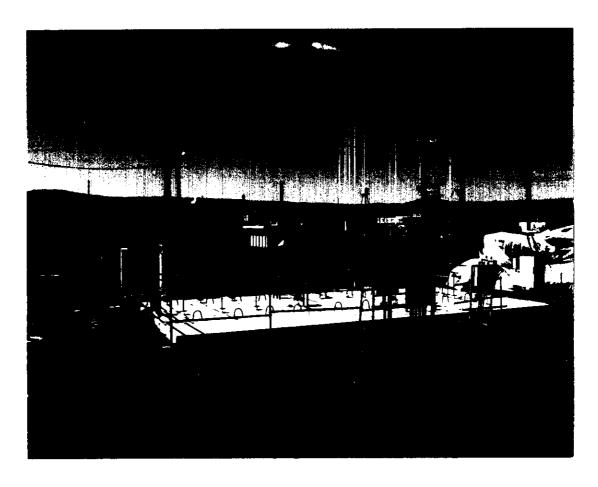
8704433-17CN (PHOTO TAKEN 1987)

244-BX DOUBLE-CONTAINED RECEIVER TANK



46°33'58" 119°32'40" 8704135-18CN (PHOTO TAKEN 1987)

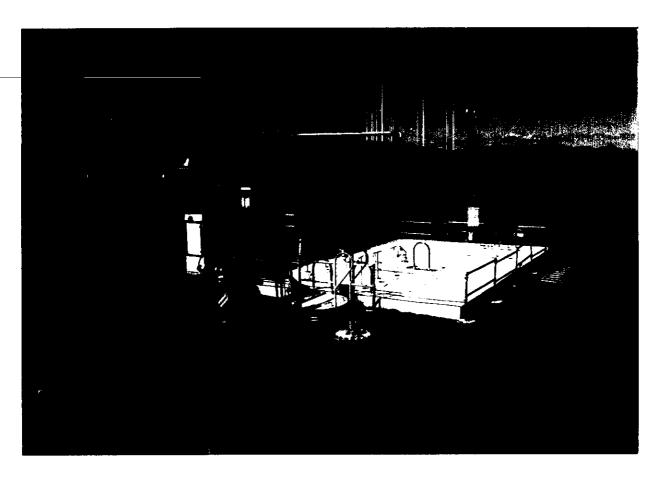
244-TX DOUBLE-CONTAINED RECEIVER TANK



46°33'20" 119°37'22"

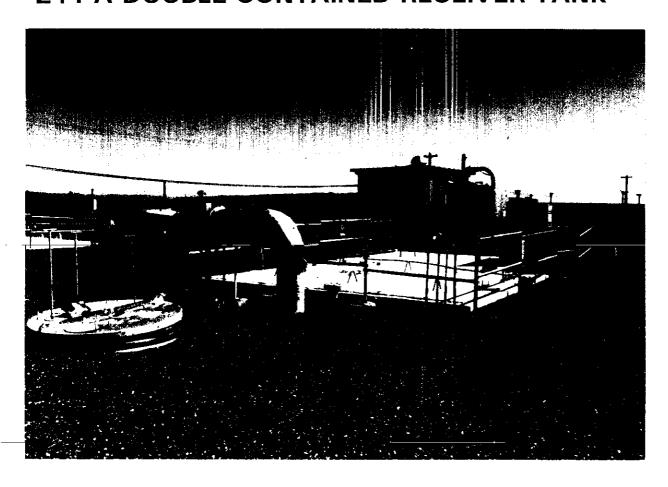
8704135-7CN (PHOTO TAKEN 1987)

244-U DOUBLE-CONTAINED RECEIVER TANK



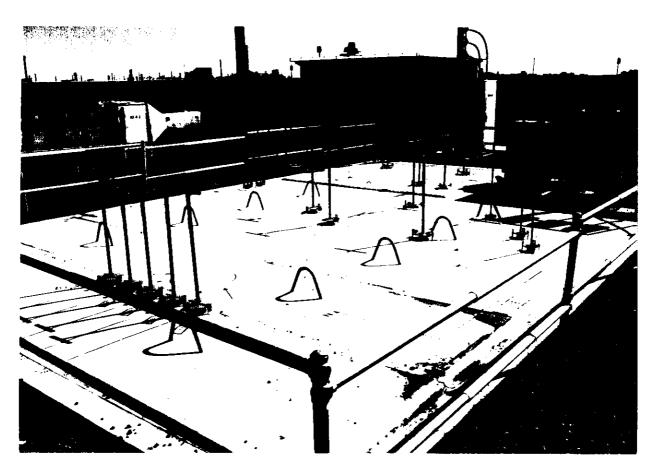
46°32'45" 119°37'22" 8704135-4CN (PHOTO TAKEN 1987)

244-A DOUBLE-CONTAINED RECEIVER TANK



46°33'20" 119°31'49" 8704433-15CN (PHOTO TAKEN 1987)

244-S DOUBLE-CONTAINED RECEIVER TANK



46°32'26" 119°37'20"

8704433-2CN (PHOTO TAKEN 1987)

Please print or type in the unshaded areas only (fill-in areas are spaced for elite type, i.e., 12 character/inch).

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B. REVICEO APPLICATION (blace an "X" above and complete Section 1 above)		O 2 O 2 8 2 OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED IND., day, & yr. Constr															DATI V OI OR IS	E, PER	A-					
III. FROCESSES - CODES AND CAPACITIES APRICESSES CODE. Finite the code from the list of process codes below that best describes each process to be used at the facility. Tan lines are provided for antening codes. It most fines are insended, enter the codeful in the pages provided. In high codes in the list of codes below, then describes the process. APRICESS CODE. Finite the code from the list of process codes below that describes below, then describes the process. It most fines for codes below, then describes the process. It most fines for codes below, then describes the process. It most fines for codes below, then describes below, then describes the process. It most fines for codes below that describes the unit of measure used. APRICESS CODE	R REV	ISED A	PPLICATION folace		<u>.il</u>	EXPECTED	10	BEG	IN_															
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INJECTION WELL LANDFILL DB0 GALLONS OR LITERS ACRE-FEET (the volume that would cover one acre to a depth of one foot) OCEAN DISPOSAL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT UNIT OF MEASURE UNIT OF MEASURE CODE UNIT OF MEASURE UNIT OF MEASURE UNIT OF MEASURE UNIT OF MEASURE CODE UNIT OF MEASURE UNIT OF MEASURE UNIT OF MEASURE CODE UNIT OF MEASURE UNIT OF MEASURE UNIT OF MEASURE CODE UNIT OF MEASUR													METRIC TONS PER HOUR; GALLONS PER HOUR OR											
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UNIT OF MEASURE CODE	4				LITERS PER DA	۱Y		i					the space provided; Section III-C.)											
UNIT OF MEASURE	"	SURFACE IMPOUNDMENT D84 GALLONS OR LITERS													UNIT OF UNIT									
EXAMPLE FOR COMPLETING SECTION III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour. N	רואט	MEASURE													MEASURE MEASUR									
EXAMPLE FOR COMPLETING SECTION III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour. N					Ģ		LITE	RS	PER	DA	Y		٠.,			··· V	RE-FEET						. <u>A</u>	
EXAMPLE FOR COMPLETING SECTION III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour. N	I CUB	IC YAR	DS		Ý		MET	RIC	TON	VS I	PER I	H OÙÁ		• • •	::	W AC	RES	EIER	:::	• • • •	• • •		. F	
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Continued from the front.

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "TO4"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

T04

The 204-AR Waste Unloading Station receives liquid mixed waste transported in 20,000-gallon (76,000-liter) capacity railroad tank cars or in 5,000 gallon (18,900 liter) tank trucks. Mixed waste is generated from decontamination and regeneration operations in the 100 and 200 Areas; from recovery and laboratory operations in the 200 and 300 Areas; and from decontamination operations in the 400 Area. The liquid mixed waste is transferred to the Double-Shell Tank (DST) System. The waste is chemically adjusted in-line during pumpout to meet DST System corrosion specifications. The in-line treatment design capacity (under item III.B.1.) of 50,000 gallons (189,000 liters) per day includes two railroad tank cars at 20,000 gallons (76,000 liters) each and an additional 10,000 gallons (38,000 liters) of liquid waste generated as a result of flushing the system.

IV. DESCRIPTION OF DANGEROUS WASTES

- A. DANGEROUS WASTE NUMBER Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* - A facility will treat and dispose of an estimated 900 pounds per year of chrome-shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

																				D. PROCESSES
T-ZE) [V	VA:	ST	RO E N	US 10. <i>1e)</i>	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. U. OF M SUF lent cod	EA- E er				1.	PR	OCE (en	SS (<i>ter)</i>		DES	}		2. PROCESS DESCRIPTION (if a code is not entered in D(1))
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X-2	Z	7	0	0	2	400	P	Τ	7	0	13	D	8	10		I		1	1	
X-3	L	,	0	0	1	100	P		7	10	3	D	T ₈	T ₀	П			Т	T	
X-4	2	,	0	0	2			Τ	7	Τ,	3	٥	8	Τ,		1		1	ī	included with above

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Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) WA7890008967 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE lenter N DANGEROUS N O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (enter code) code) P Treatment-Other-Chemical Treatment n lol 0 15,600,000 Ť04 2 D 0 0 2 \top 0 0 3 D 0 0 4 \mathbf{I} D 0 0 5 D 0 0 6 \Box 0 7 D 0 | B | O | O | B T0 0 9 10 0 1 0 D lD 0 1 1 12 0 1 8 D 1 9 D 0 D 0 2 D 0 2 8 2 D 0 9 3 0 D 0 18 0|3 D 3 19 3 D 0 4 20 D 0 3 5 TT 3 D 6 0 \Box 22 D 0 3 8 ΙT D 0 3 9 T D 0 4 0 $\mathsf{T}\mathsf{T}$ \Box 25 D 0 4 1 26 D 0

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204-AR Waste Unloading Station Rev. 3, 11/04/94, Page 4 of 10

Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER fentered from page 1) W A 7 8 9 0 0 0 8 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES L N DANGEROUS N O WASTE NO. C. UNIT OF MEA-SURE B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (enter code) (anter code) Tlol P Ť04 Treatment-Other-Chemical Treatment |T|0|2 C 0 2 Р 0 1 5 Р 2 0 6 0 0 2 0 0 0 0 3 F 00 4 5 0 0 ٥ 3 9 Included With Above 12 13 14 16 $T \cap$ 17 18 19 20 \Box 21 7 22 23 24 I = I25 26

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Continued from the front.

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The 204-AR Waste Unloading Station is used for the treatment of liquid mixed waste that might exhibit the characteristic of corrosivity (D002, pH greater than or equal to 12.5) following the addition of caustic chemicals (sodium hydroxide and sodium nitrite). The waste is treated in-line at the 204-AR Waste Unloading Station to make the waste amenable for storage in the DST System.

The waste identified in Section IV.A has the potential for being transported to the 204-AR Waste Unloading Station, treated, and transferred to the DST System. The mixed waste consists of listed waste, characteristic waste (D001, D002, and D003), toxic constituents (D004 through D011, D018, D019, D022, D028 through D030, D033 through D036, D038 through D041, and D043), nonspecific source waste (F001 through F005, and F039 as defined below), and state-only waste (WT01, WT02, WC02, WP01, and WP02). Multi-source leachate (F039) is included as a waste derived from nonspecific source wastes F001 through F005.

V. FACILITY DRAWING All existing facilities must include in the space provided on p	age 5 a scale drawing of the facility fees	Instructions for more details	
VL PHOTOGRAPHS	ago o a scule drawing of the facility (388)	mistractions for more detent.	
All existing facilities must include photographs facilet or grou	ind-level) that clearly delineate all existing	structures; existing storage, treatment and disposal areas; and	<u> </u>
sites of future storage, treatment or disposal areas (see instr		the ottocked described	
VII. FACILITY GEOGRAPHIC LOCATION 1 https://dearess.minutes. & second		the attached drawings and photos.	
CATTODE Idegrees, numbres, & second	31	LONGITUDE (degrees, minutes, & seconds)	
		 	
VIII. FACILITY OWNER			
A. If the facility owner is also the facility operator as listed below.	ed in Section VII on Form 1, "General Info	rmation", place an "X" in the box to the left and skip to Section	n IX
B. If the facility owner is not the facility operator as listed	d in Section VII on Form 1, complete the f	following items:	
1 NAME OF F	FACILITY'S LEGAL OWNER	a processor	
	ANEXT OFFICE OF THE PERSON OF	2. PHONE NO. (area code &	: <u>no.)</u>
		╵╵╸┊╸┆╶┆╶┇╸┋╸	L_
3, STREET OR P.O. BOX	4, CITY OR	TOWN 5, ST. 6, ZIP CODE	
IX. OWNER CERTIFICATION			
I certify under penalty of law that I have personally examined inquiry of those individuals immediately responsible for obtain there are significant penalties for submitting false information.		nitted in this and all attached documents, and that based on m mitted information is true, accurate, and complete. I am aware isonment.	y that
NAME (print or type) John D. Wagoner, Manager	SIGNATURE /	DATE SIGNED	
U.S. Department of Energy	1 1 1/ 1/20	and william	
Richland Operations Office	Music. Wa	1m 11/1/99	
X. OPERATOR CERTIFICATION	1		
I certify under penalty of law that I have personally examined inquiry of those individuals immediately responsible for obtain, there are significant penalties for submitting false information,	arfdiam familiar with the information subn ing the information, I believe that the subr uncluding the possibility of fine and impri	nitted in this and all attached documents, and that based on my mitted information is true, accurate, and complete. I am aware isonment.	y that
NAME (print or type)	SIGNATURE	DATE SIGNED	
SEE ATTACHMENT			
			1

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

John D. Wagoner, Manager U.S. Department of Energy

Richland Operations Office

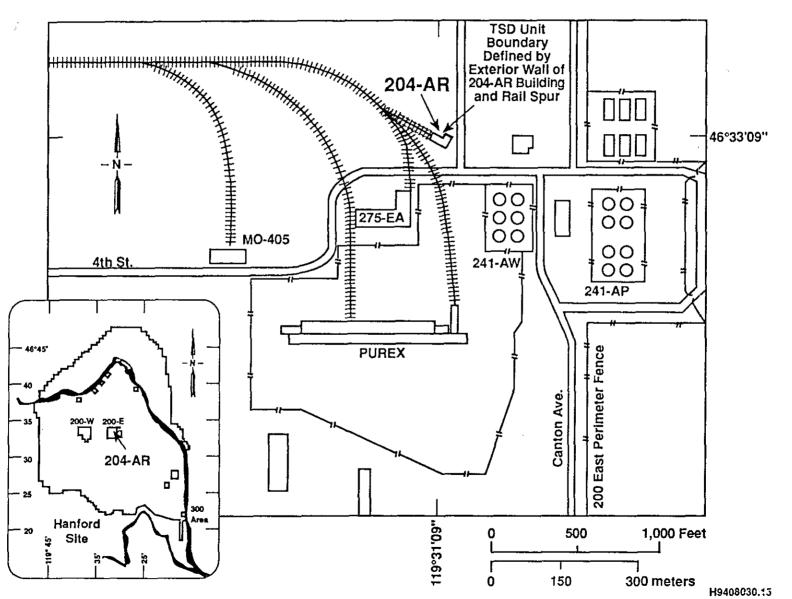
11/4/94

A. LaMar Trego, President

Westinghouse Hanford Company

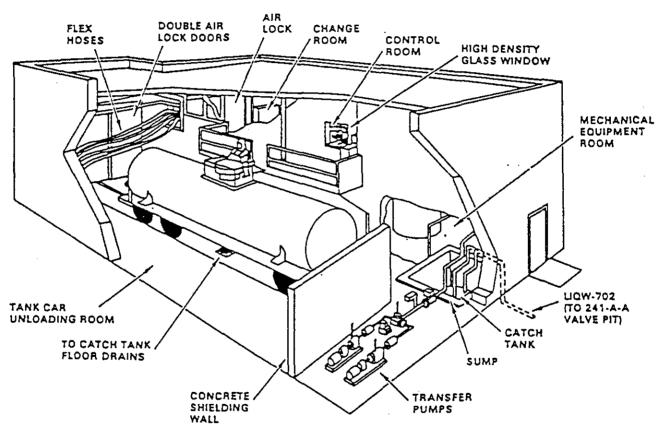
9/20/94 Date

204-AR Building Waste Unloading Station Site Plan



204-AR Waste Unloading Station Rev. 3, 11/04/94, Page 7 of 10

204-AR WASTE UNLOADING STATION CUTAWAY VIEW



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204-AR Waste Unloading Station Rev. 3, 11/04/94, Page 8 of 10

204-AR WASTE UNLOADING STATION



46°33'09" 119°31'09"

8706421-18CN (PHOTO TAKEN 1987)

21/32/7...6/3

204-AR WASTE UNLOADING STATION -INTERNAL VIEW



TYPICAL RAILROAD TANK CAR UNLOADING

46°33'09" 119°31'09"

8706421-16CN (PHOTO TAKEN 1987)

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		ICATION	D82	OR HECTARE-I ACRES OR HE	MET CTA	ER <i>RES</i>							at	uria tore	ce impoundments or incine . Describe the processes in	<u>.</u>							
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III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "TO4"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

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D81

The Low-level Retrievable Storage Units (D81) were storage facilities that were used to store 55 gallon (208 liter) drums or boxes containing mixed wastes. Waste containers were stored on underground asphalt pads and plywood-lined underground trenches. An earthen cover over the trenches provided radiological protection.

The Low-Level Burial Grounds consists of two types of trenches; RCRA compliant trenches, and past practice trenches. The RCRA compliant trenches have either liners and leachate collection systems, or use alternative technologies such as high integrity packaging. The past practice trenches were used for mixed waste disposal prior to regulation, and continue to be used on a case-by-case basis for the disposal of remote-handled mixed waste packages. Disposal of remote-handled mixed waste packages in past practice trenches require notification to the Washington State Department of Ecology.

The waste handled at the above-mentioned facilities are generated by many different operations, both on and off the Hanford Facility.

The process design capacity for mixed waste in the LLBG is 950 acre-feet (1,171,825 cubic meters) of which 750 acre-feet (925,125 cubic meters) is dedicated solely for the disposal of submarine reactor compartments.

IV. DESCRIPTION OF DANGEROUS WASTES

- A. DANGEROUS WASTE NUMBER Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column 8 enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE	METRIC UNIT OF MEASURE CODE
POUNDS	KILOGRAMS

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2, PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

																			D. PROCESSES
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NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) A 7 8 9 0 0 0 8 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE N DANGEROUS O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (enter (enter code) Р Ď8ĺ Disposal/Storage** <u>|o</u>|o| Ų $\mathsf{T}\mathsf{T}$ lu T $\mathsf{T}\mathsf{T}$ 0 9 TT lυ \top \top ulo Ulo U U T U U U 0 2 1 1: $\top \top$ Ulo Ulo TU

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ECL30 - 271 - ECY 030-31 Form 3

PAGE 3 OF 6

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Rev. 7, 11/04/94, Page 6 of 31 Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) WA7890008967 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE (enter code) A. N DANGEROUS O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE N 1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (enter code) <u> D81</u> P U 0 5 8 Disposal/Storage** U 5 9 ا۱ l 6 l 0 6 2 U U П Included With Above U Retrievable Storage** U Included With Above Disposal/Storage** Included With Above Retrievable Storage** Disposal/Storage** υ U

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NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) WA7890008967 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE (enter A. N DANGEROUS O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (enter) (enter code) codel 1 0 2 Р <u> D81</u> 500 Disposal/Storage** 2 P 0 2 9 11 11 3 0 3 Р 0 Ρ 0 3 1 Р 0 3 3 6 P 0 3 4 $\top \top$ $\mathsf{I} \mathsf{T}$ 7 Р 0 3 6 \top 1 1 8 Ρ 0/3 ۱7 \mathbf{I} P 0 3 8 10 ΙP 0 3 9 1 1 11 Р 0 0 4 12 PO 4 1 13 lp I o 4 2 14 PO 3 4 15 P 0 4 4 16 P 0 4 5 1-1 17 P 0 4 6 18 P 0 4 7 TT 19 P 0 4 8 \mathbf{I} 20 lΡ 0 9 4 21 Ρ 0 5 0 lр 5 0 1 TT23 ĺΡ 5 0 4 24 5 ĺΡ 0 6 T I 25 lΡ 5 7 0 26 5 0

2 26 7 6 224 Low-Level Burial Grounds

Rev. 7, 11/04/94, Page 14 of 31

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NOTE: Photocopy this page before completing if you have more than 26 westes to list. I.D. NUMBER (entered from page 1) W A 7 8 9 0 0 0 B 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE (enter N DANGEROUS O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES 2. PROCESS DESCRIPTION (If a code is not entered in D(1)) (enter) (enter code) code) P $P \mid 0$ D81 Disposal/Storage** P Ρ р P P Ρ В P \top Р Р P P Р р P Р ΙP 1-1 Р P 0 8 1 Р 0 8 П Р 0 8 Р T^{T} Ρ Ρ P

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IV. DESCRIPTION OF DANGEROUS WASTES (continued)		
E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODE	S FROM SECTION D(1) ON PAGE	3.
and state-only wastes [design (WTO1) results from lead cont (FOO1 through FOO5, FO28, and waste derived from nonspecifi	nation of Extremely cent in waste], and I F039). Multi-sour c source wastes F00 ch 94 of the 218-E-1	listed wastes, characteristic wastes Hazardous Waste due to toxicity wastes from nonspecific sources rce leachate (F039) is included as a 01 through F005. The submarine 02B burial ground contain shielding
V. FACILITY DRAWING		
All existing facilities must include in the space provided on p	page b a scale drawing of the facili	ty (see instructions for more detail).
	und-level) that clearly delineate all	existing structures; existing storage, treatment and disposal areas; and
		ed on the attached drawings and photos.
LATITUDE (degrees, minutes, & second		LONGITUDE (degrees, minutes, & seconds)
		
VIII. FACILITY OWNER		
A. If the facility owner is also the facility operator as list below.	ed in Section VII on Form 1, "Gene	ral information", place an "X" in the box to the left and skip to Section
B. If the facility owner is not the facility operator as lists	ed in Saction VII on Form 1, comple	ate the following items:
1. NAME OF	FACILITY'S LEGAL OWNER	2. PHONE NO. (area code & r
		<u></u>
3, STREET OR P.O. BOX	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	TY OR TOWN 5, ST. 6, ZIP CODE
IN ONDER OFFICE TION		
IX. OWNER CERTIFICATION I certify under penalty of law that I have personally examined.	and am familiar with the informati	on submitted in this and all attached documents, and that based on my
inquiry of those individuals immediately responsible for obtain there are significant penalties for submitting false information	uno the intormation. Loelleva that	The summitted intormation is true equivate and executes. I am a con-
NAME (print or type) John D. Wagoner, Manager	BIGNATURE	DATE SIGNED
U.S. Department of Energy	Hodge 11/14	11/4/94
Richland Operations Office X. OPERATOR CERTIFICATION	you we us	agour 1119/99
I certify under penalty of law that I have personally examined inquiry of those individuals immediately responsible for obtain	ghd am familiar with the informati ing the information, I believe that	on submitted in this and all attached documents, and that based on my the submitted information is true, accurate, and complete. I am aware to
there are significant penalties for submitting false information NAME (print or type)	, including the possibility of fine at SIGNATURE	io imprisoriment.
		DATE SIGNED
SEE ATTACHMENT	1	
ECL30 - 271 - ECY 030-31 Form 3	PAGE 4 OF 5	

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X. OPERATOR CERTIFICATION

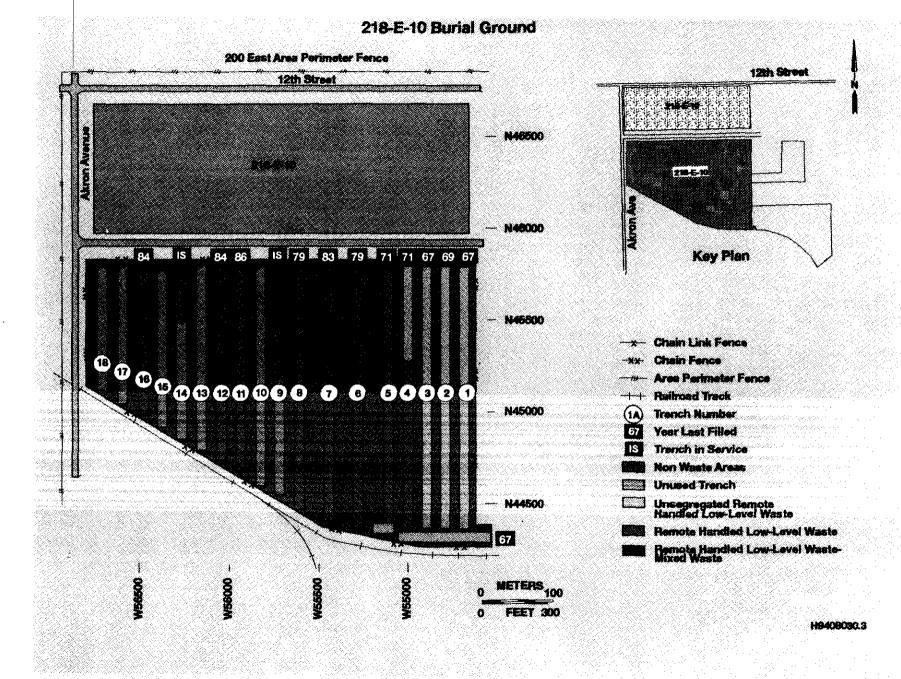
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

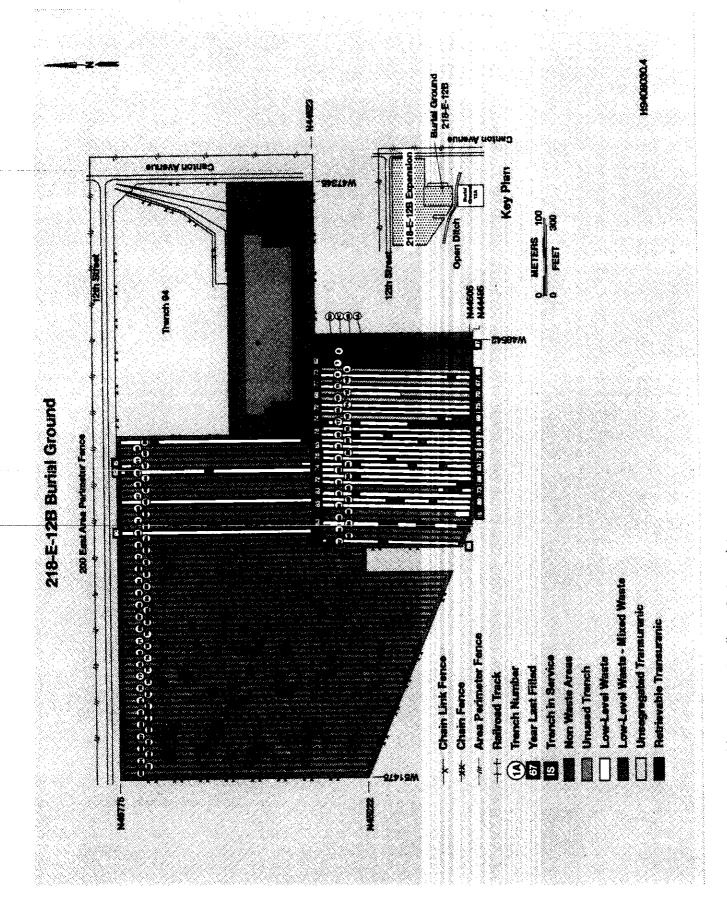
Owner Operator

John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office 11/4/94 Date

Co-operator

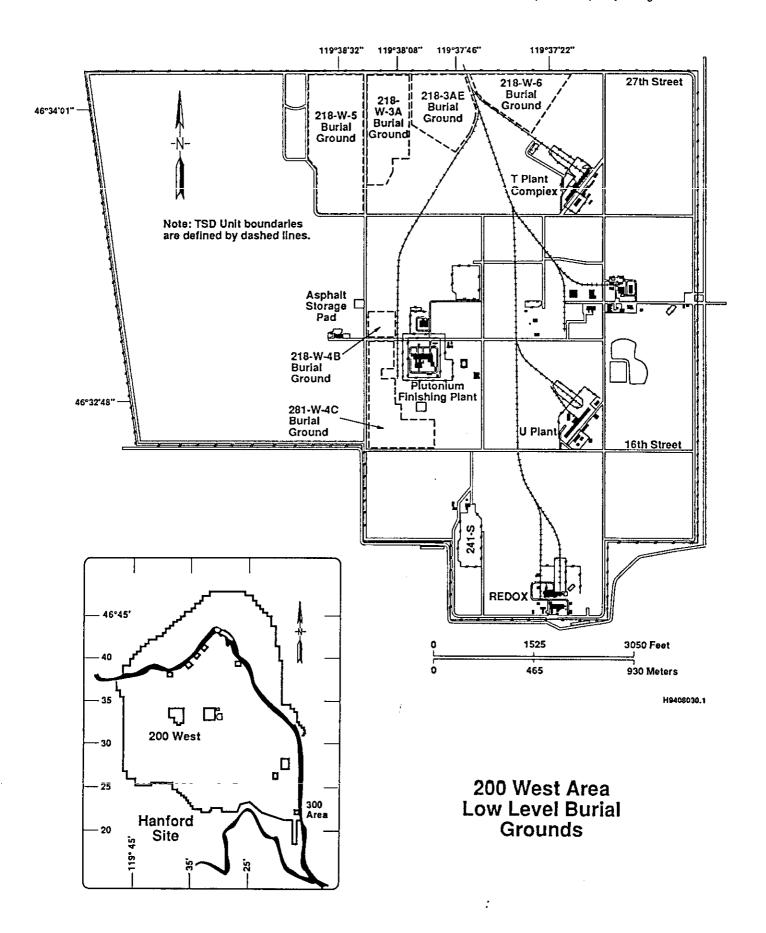
A. LaMar Trego, President Westinghouse Hanford Company عد | م Date

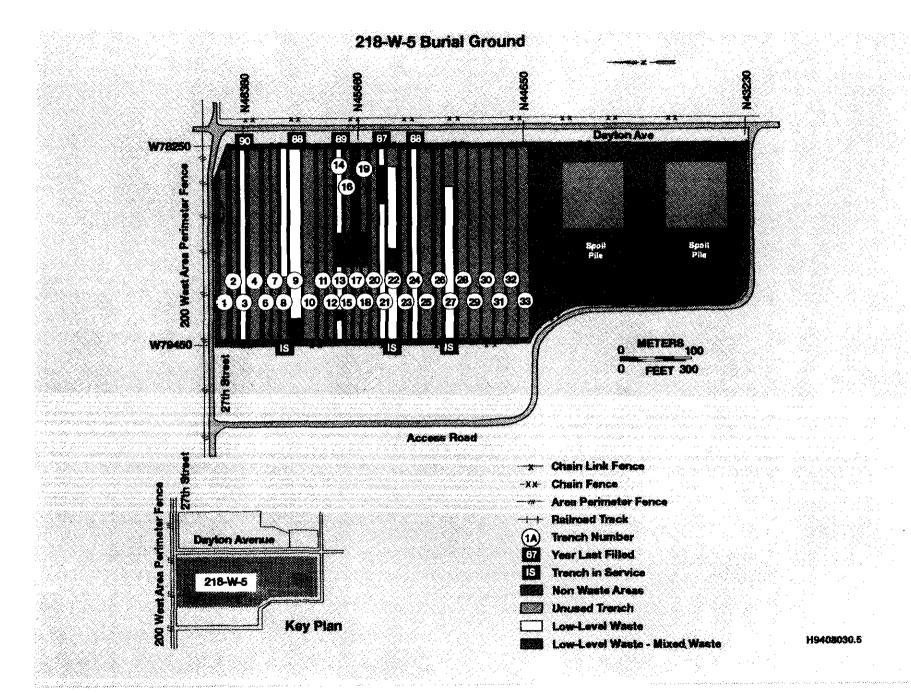


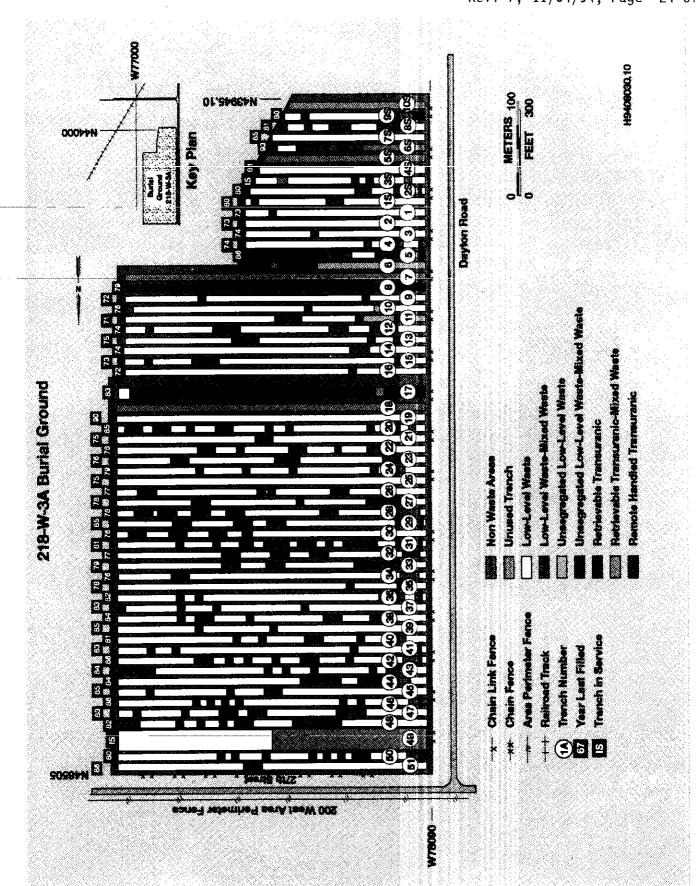


W and N numbers are Washington State Coordinate System points.

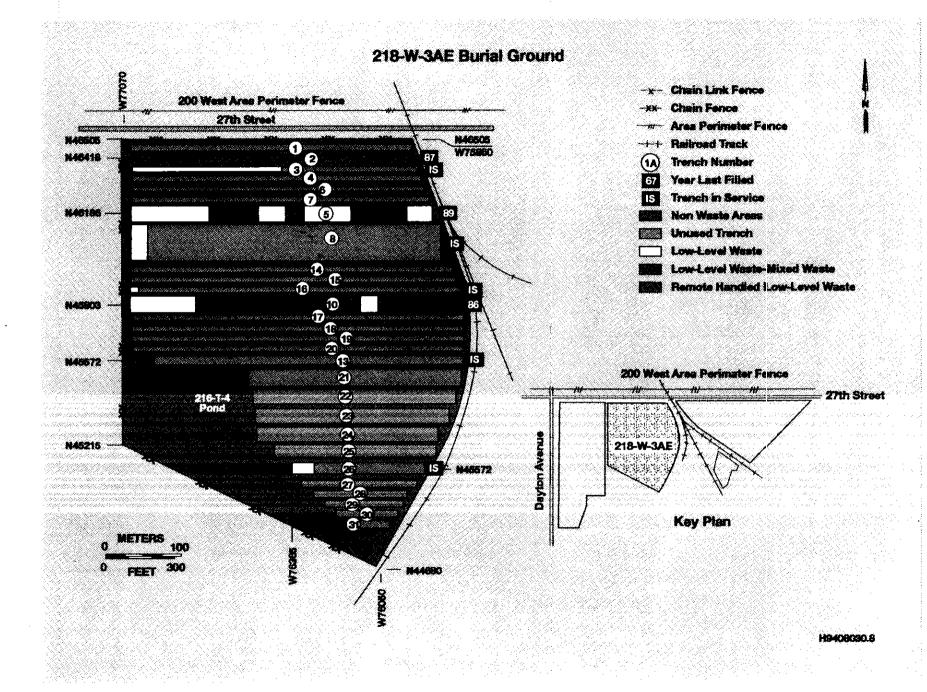
Rev. 7, 11/04/94, Page 22 of 31



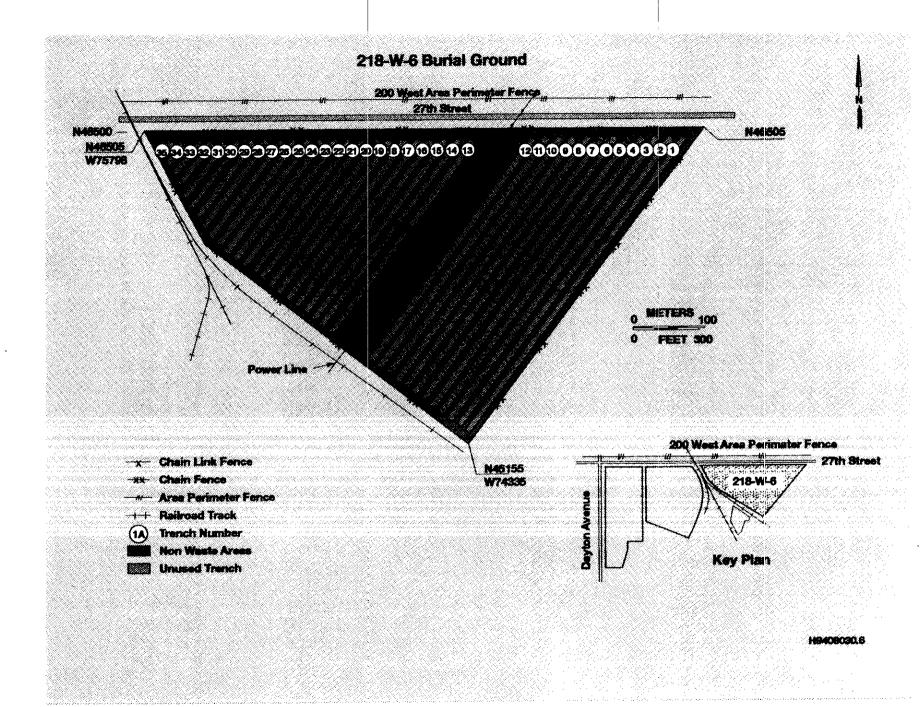


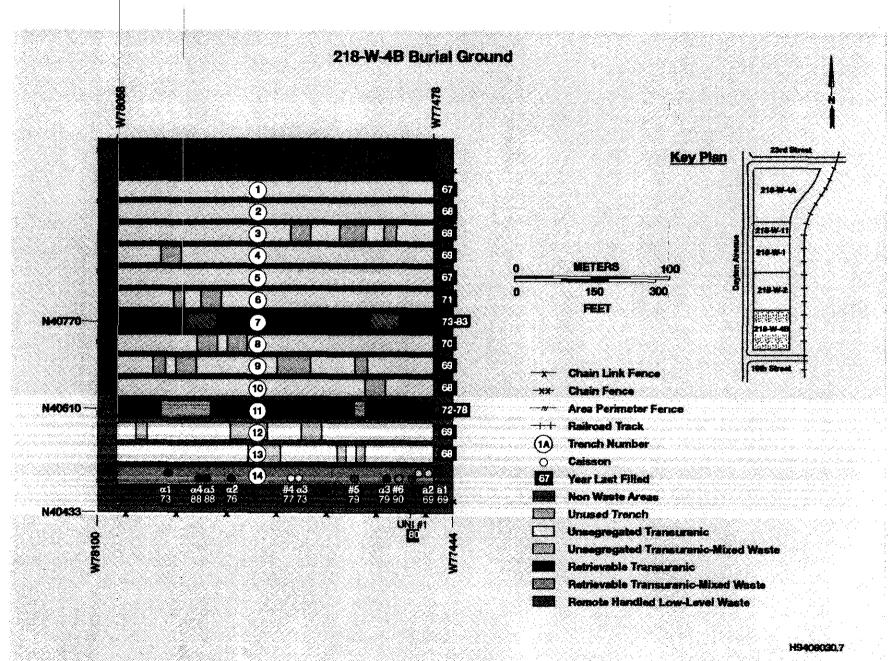


W and N numbers are Washington State Coordinate System points.

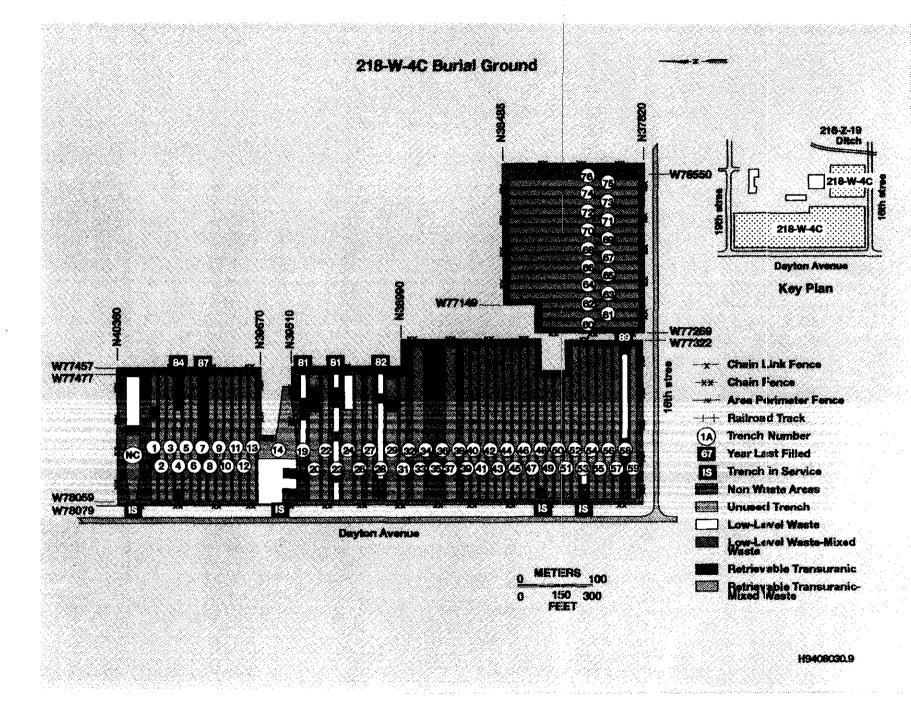


 $\ensuremath{\mathbf{W}}$ and $\ensuremath{\mathbf{N}}$ numbers are Washington State Coordinate System points.



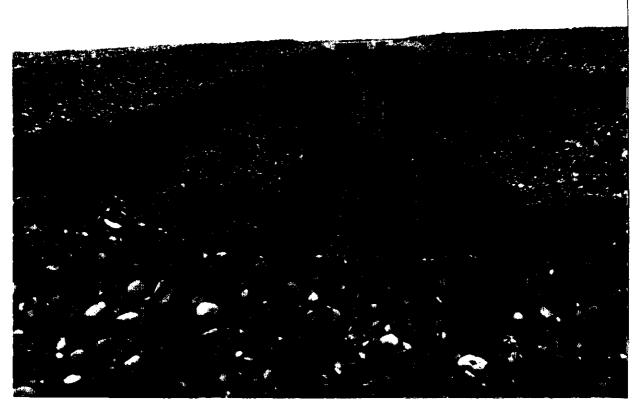


W and N numbers are Washington State Coordinate System points.



Low-Level Burial Grounds Rev. 7, 11/04/94, Page 29 of 31

TYPICAL LOW-LEVEL BURIAL GROUND TRENCH 218-W-3A/200 WEST AREA



46°33'41.318" 119°38'6.440"

8301108-40CN (PHOTO TAKEN 1983)

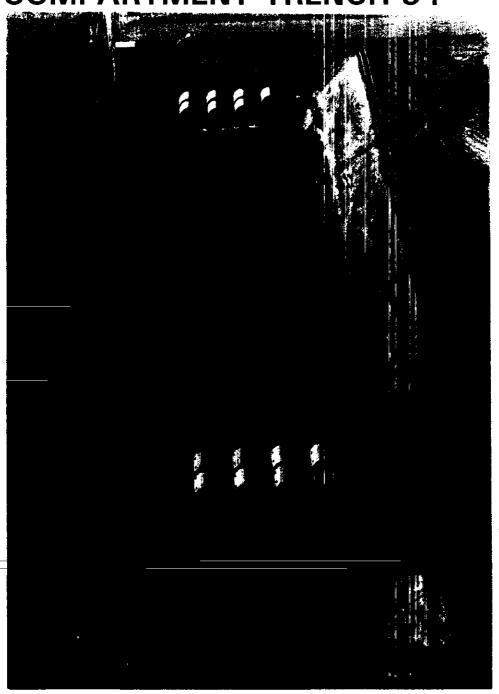
TYPICAL LOW-LEVEL RETRIEVABLE STORAGE FACILITY-LIQUID ORGANICS 218-W-4C/200 WEST AREA



46°33'5.892" 119°38'3.981"

8505779-30CN
(PHOTO TAKEN 1985)

SUBMARINE REACTOR COMPARTMENT TRENCH-94



46°34'05" 119°31'31"

93110638-6CN (PHOTO TAKEN 1993)

Action to the second

Please print or type in the unshaded areas only (fill-in ereas are spaced for elite type, i.e., 12 character/inch).

FORM	T		_								•					·	1. EPA	STATE L	D. N	UMB	ER			
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	PROCESSES - CODES AND CAPACITIES PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided. If a process will be used that is not included in the list of codes below, the															ddad	for		-la-	_				
code	s. If m	ore lines are needed cluding its design ca	i, enter th	e code(s) in the	spa	co pra	vid	ed.	If a	pro	COBE	Will	be	usa	d that is not includ	led in the	list of co	des belov	v, th	en d	BECI	be t	he	
B. PRO	CESS D	ESIGN CAPACITY -	For each	code entered in	colu	mn A	en!	er ti	18 0	apa	city o	f th	e pi	roce	248.									
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III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "TO4"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

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S04

The Liquid Effluent Retention Facility (LERF) was constructed under interim status in accordance with the Washington Administrative Code (WAC) 173-303. The LERF provides interim storage of the 242-A Evaporator process condensate until treatment capability for the process condensate is available.

The LERF is a retention basin consisting of three cells (surface impoundments) (SO4). Each cell has a design capacity of 6,500,000 gallons (24,605,000 liters) with a total capacity of 19,500,000 gallons (73,815,000 liters).

IV. DESCRIPTION OF DANGEROUS WASTES

- A. DANGEROUS WASTE NUMBER Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS		KILOGRAMS	K

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form,

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- 1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of _____the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that fine enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

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Liquid Effluent Retention Facility Rev. 3, 11/04/94, Page 3 of 7

Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) W A 7 8 9 0 0 0 6 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE (enter code) L N DANGEROUS N O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (anter) (enter code) |F|0|0| Р \$04 162,728,000 Storage - Surface Impoundment 2 F 0 0 2 3 0 0 1 1 4 0 0 \Box 0 0 5 0 3 9 7 W T 0 2 Included With Above T9 П 10 1-1 12 13 7 14 15 16 17 18 19 20 21 П $\mathsf{T}\mathsf{T}$ 22 T23 24 25 \Box 26

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Continued from the front. IV. DESCRIPTION OF DANGEROUS WASTES (continued) E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3. The LERF receives and stores the 242-A Evaporator process condensate until treatment capability for the process condensate is available. A description of the dangerous waste stored at LERF is as follows. The 242-A Evaporator process condensate is regulated as a mixed waste due to the presence of spent halogenated and nonhalogenated solvents (F001, F002, F003, F004, and F005) and for the toxicity of ammonia (WT02, toxic state-only dangerous waste). Multi-source leachate (F039) is included as a waste derived from nonspecific source wastes F001 through F005. The Estimated Annual Quantity of Dangerous Waste (item IV.B.) of 162.728.000 pounds (73,812,000 kilograms) per year is based on approximately 19.500,000 gallons (73.815.000 liters) of waste, or the total capacity of the the LERF. V. FACILITY DRAWING All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail). All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail). This information is provided on the attached drawings and photos. VII. FACILITY GEOGRAPHIC LOCATION LONGITUDE (degrees, minutes, & seconds) LATITUDE (degrees, minutes, & seconds) VIII. FACILITY OWNER 🗷 A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items: PHONE NO. (area code & no.) ZIP CODE IX. OWNER CERTIFICATION I certify under penelty of lew that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the ossibility of fine and imprisonment. SIGNATUR NAME (print or type) John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office X. OPERATOR CERTIFICATION I certify under penelty of law that I have personally exemined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. NAME (print or type) DATE SIGNED

SEE ATTACHMENT

I what I was Liquid Effluent Retention Facility Rev. 3, 11/04/94, Page 5 of 7

X. OPERATOR CERTIFICATION

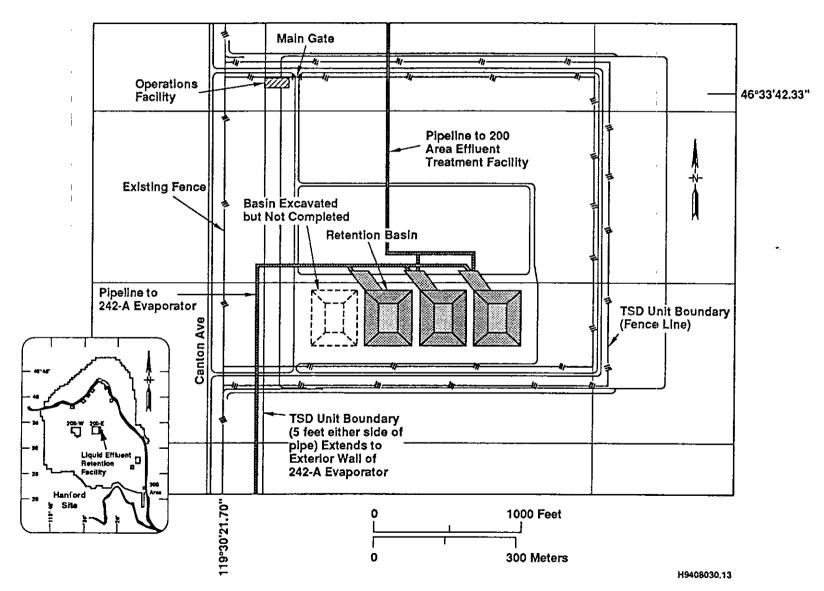
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office

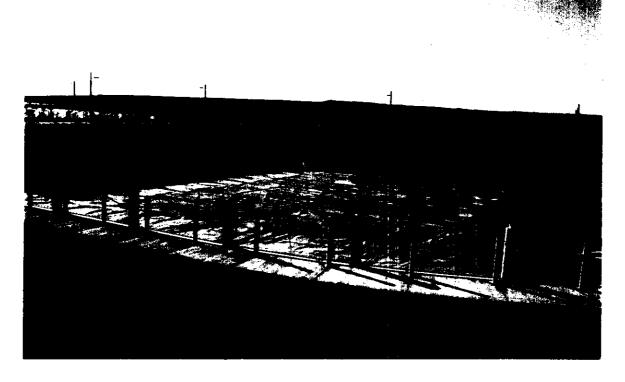
A. LaMar Trego, President Westinghouse Hanford Company

9/20/14 Date

Liquid Effluent Retention Facility Site Plan



LIQUID EFFLUENT RETENTION FACILITY



TYPICAL BASIN

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III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "TO4"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

The 222-S Laboratory Complex consists of the following two waste management units, the 219-S Waste Handling Facility and the
222-S Dangerous and Mixed Waste Storage Area. Processes associated with these two units are described as follows.

The Man Park 1

S02.T01 - The 219-S Waste Handling Facility is located northeast of the 222-S Analytical Laboratory Building. The 219-S Waste Handling Facility contains three stainless steel tanks: 101 [4,000 gallon (15,000 liters)], 102 [4,000 gallon (15,000 liter)], and 103 [1,500 gallon (6,000 liter)] located in a belowground concrete vault (S02). Tanks 101 and 103 are used for primary and backup storage of mixed waste from the 222-S Analytical Laboratory. The mixed waste is transferred from tanks 101 and 103 to tank 102 for treatment (T01) and storage before transfer to the Double-Shell Tank (DST) System. The mixed waste is treated in tank 102 with sodium hydroxide (NaOH) to a pH greater than or equal to 12.0 and with sodium nitrite (NaNO₂) to a concentration of 600 parts per million. This treatment process makes the mixed waste more amenable for storage in the DST System. The maximum process design capacity of the three storage tanks is 9,500 gallons (36,000 liters). The maximum treatment process design capacity for tank 102 is 206 gallons (780 liters) per day [75,000 gallons (284,000 liters) per year].

S01 - The 222-S Dangerous and Mixed Waste Storage Area is located on the north side of the 222-S Analytical Laboratory Building. The 222-S Dangerous and Mixed Waste Storage Area consists of two metal storage structures resting on a concrete pad. The 222-S Dangerous and Mixed Waste Storage Area stores a total of 36 U.S. Department of Transportation-approved or equivalent 17C or 17H 55-gallon (208 liter) containers or other U.S. Department of Transportation-approved packages and overpacks of mixed waste and nonradioactive dangerous waste (S01). Each metal storage structure holds a total of 18 containers of waste. The containers are stored at the 222-S Dangerous and Mixed Waste Storage Area until transferred to the Hanford Central Waste Complex (mixed waste) or to the 616 Nonradioactive Dangerous Waste Storage Facility (nonradioactive dangerous waste) for storage. The maximum design capacity of the 222-S Dangerous and Mixed Waste Storage Area is 540 gallons (2,000 liters) [15 gallons (57 liters) of liquids per container].

IV. DESCRIPTION OF DANGEROUS WASTES

- A. DANGEROUS WASTE NUMBER Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis.

 For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS		KILOGRAMS	

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- 1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV Ishown in line numbers X-1, X-2, X-3, and X-4 below! - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tenning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

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NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

1.D. NUMBER (entered from page 1)

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222-S Laboratory Complex Rev. 3, 11/04/94, Page 4 of 15

Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) W A 7 8 9 0 0 0 8 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE (enter N DANGEROUS N O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) 1. PROCESS CODES (enter) (enter code) codel Storage - Tank/Treatment - Tank 1 P Τοί T 0 \$02 2 T 2 lw 3 c 0 Р 0 lw 1 \top 5 Ρ 0 2 77 6 0 0 7 ļF 0 0 0 3 0 0 0 4 10 0 0 5 3 9 Included With Above 0 P 12 n 0 0 12,000 **S01** Storage - Container 13 D 0 0 lD 0 0 3 15 İĐ Ô 0 4 16 lD 0 0 5 17 JD 0 0 6 18 n 0 0 7 8 D 0 0 20 0 9 lD 0 21 D 0 1 0 22 D 0 23 D 0 1 2 24 0 3 D 1 TT 25 b 0 1 4 26

222-S Laboratory Complex Rev. 3, 11/04/94, Page 5 of 15 Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

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222-S Laboratory Complex Rev. 3, 11/04/94, Page 6 of 15

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Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) WA7890008967 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE (enter code) N DANGEROUS O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) 1. PROCESS CODES (enter code) WPO P ŠO: Storage - Container (cont) 2 WIT 0 1 lτ 2 W 0 F 10 0 -1 F ٥ 0 2 |F|0|0|3 lF lo 0 4 F 0 0 5 F 0 2 7 ۱F 10 3 Included With Above 0 9 11 12 13 14 15 16 17 18 19 20 21 22 T 23 24 25 П 26

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IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

Mixed waste from the 222-S Analytical Laboratory Building flows by gravity to the 219-S Waste Handling Facility for treatment before transfer to the Double-Shell Tank System. Some mixed waste may require chemical treatment within the 222-S Laboratory Complex before introducing the mixed waste into the 219-S Waste Handling Facility. The mixed waste is considered corrosive (D002) because of the presence of nitric acid prior to treatment and sodium hydroxide following treatment. Treated mixed waste transferred to the Double-Shell Tank System consists of characteristic waste (D001, D002, and D003), toxic constituents (D004 through D043), state-only waste (WC02, WP01, WP02, WT01, and WT02), and spent halogenated and nonhalogenated solvent waste (F001, F002, F003, F004, and F005). Multi-source leachate (F039) is included as a waste derived from nonspecific source wastes F001 through F005. Before transfer, sodium nitrite is added to the mixed waste for corrosion protection of the Double-Shell Tank System (WT02).

The U.S. Department of Transportation-approved or equivalent 17C or 17H 55-gallon (208-liter) containers or other U.S. Department of Transportation-approved packages and overpacks of waste are stored in two metal storage structures located on a concrete pad before shipment to the Hanford Central Waste Complex (mixed waste) and/or the 616 Nonradioactive Dangerous Waste Storage Facility (nonradioactive dangerous waste). The contents of the containers are identified through process knowledge and sample results. The containers hold characteristic waste (D001, D002, and D003), toxic constituents (D004 through D038), spent halogenated and nonhalogenated solvent waste (F001, F002, F003, F004, and F005), nonspecific source waste (F027 and F039 as defined above), discarded polychlorinated biphenyls (W001), and state-only waste (WC02, WP01, WP02, WT01, and WT02).

			•
V. FACILITY DRAWING			
All existing facilities must include in the space provide	ded on page 5 a scale drawing o	f the facility (see instructions for more de	etail).
VI. PHOTOGRAPHS			
All existing facilities must include photographs (aeria sites of future storage, treatment or disposal areas f	sea instructions for more detail)		•
VII. FACILITY GEOGRAPHIC LOCATION	This information is	provided on the attached of	rawings and photos.
LATITUDE (degrees, minutes, &			ees, minutes, & seconds)
VIII, FACILITY OWNER			
A. If the facility owner is also the facility operate below. B. If the facility owner is not the facility operate.			in the box to the left and skip to Section IX
3. STREET OR P.O. BOX	ME OF FACILITY'S LEGAL OWN	### ##################################	2. PHONE NO, larea code & no.) 5. SY. 6. ZIP CODE
IX. OWNER CERTIFICATION			
I certify under penalty of law that I have personally a inquiry of those individuals immediately responsible for there are significant penalties for submitting false info	ur optaining tha information. I be	liëve Inal Ina submitted information is to	ached documents, and that based on my ie, accurate, and complete. I am aware that
NAME (print or type) John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	John W.	Vagona	DATE SIGNED
X. OPERATOR CERTIFICATION			
I certify under penalty of law that I have personally e- inquiry of those individuals immediately responsible for there are significant penalties for submitting false info	xaming and am familiar with the or obtaining the information, I be ormation, including the possibility.	e information submitted in this and all atta lieve that the submitted information is tru y of fine and imprisonment.	ached documents, and that based on my te, accurate, and complete. I am aware that
NAME (print or type)	SIGNATURE		DATE SIGNED

SEE ATTACHMENT

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222-S Laboratory Complex Rev. 3, 11/04/94, Page 8 of 15

X. OPERATOR CERTIFICATION

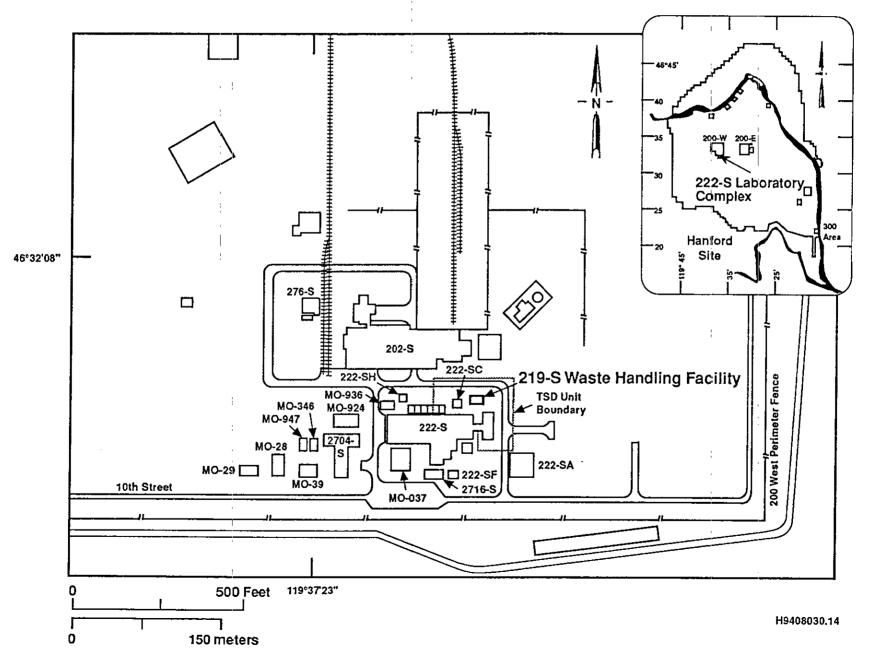
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Own@r/Operator

John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office

A. LaMar Trego, President Westinghouse Hanford Company 11/4/94

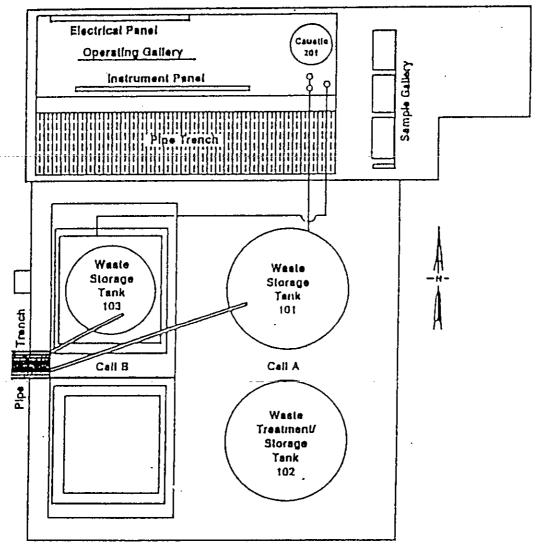
222-S Laboratory Complex 219-S Waste Handling Facility Tanks 101, 102, and 103 Site Plan



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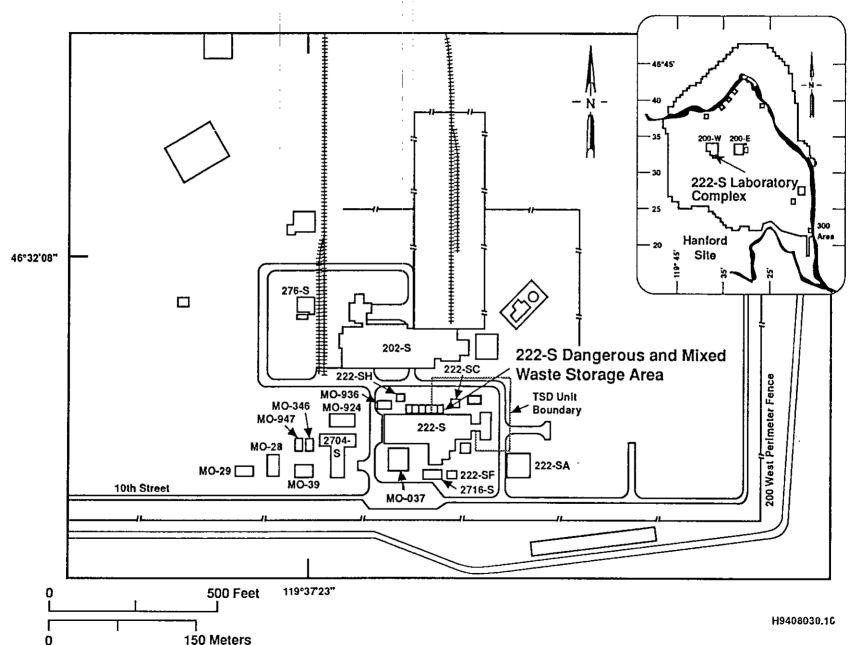
222-S LABORATORY COMPLEX



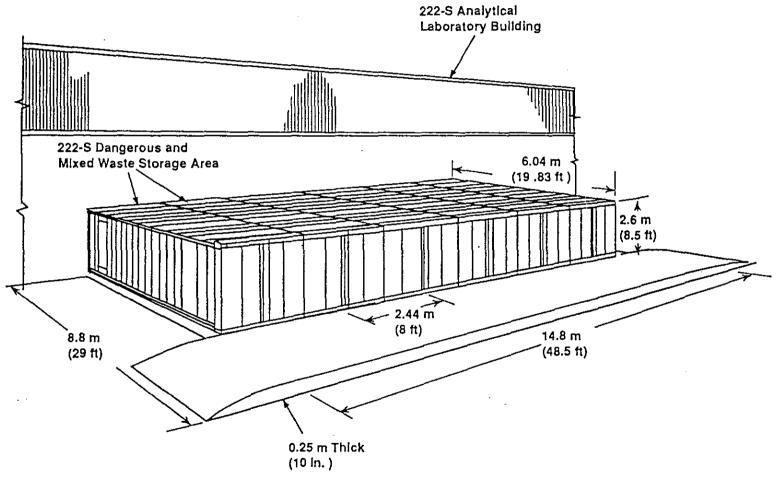
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219-S WASTE HANDLING FACILITY TANKS 101, 102, AND 103

222-S Laboratory Complex 222-S Dangerous and Mixed Waste Storage Area Site Plan

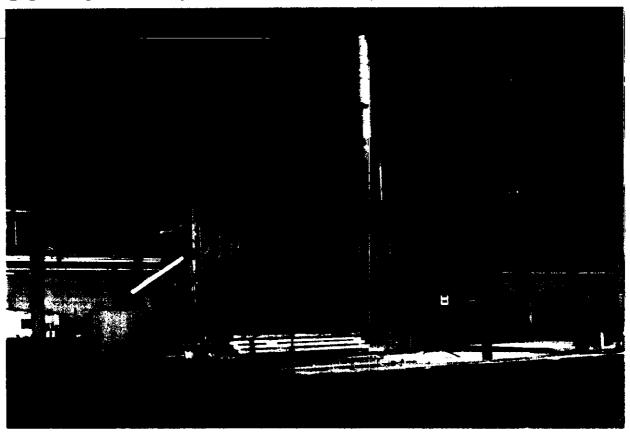


222-S Laboratory Complex



222-S Dangerous and Mixed Waste Storage Area

222-S LABORATORY COMPLEX



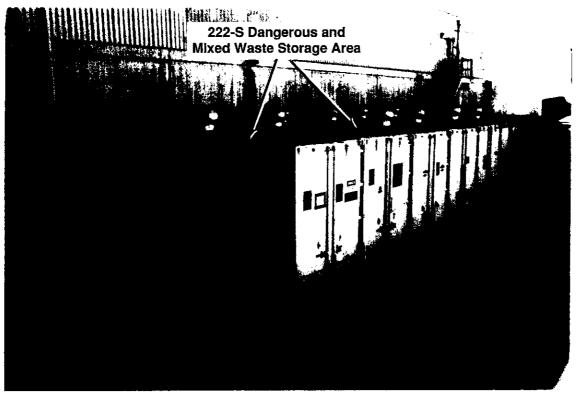
219-S Waste Handling Facility

46°32'02" 119°37'12"

91092605-2CN (PHOTO TAKEN 1991)

222-S Laboratory Complex Rev. 3, 11/04,94, Page 14 of 15

222-S LABORATORY COMPLEX DANGEROUS AND MIXED WASTE STORAGE AREA



Metal Storage Structures on Storage Pad

46°32'02" 119°37'12"

91022217-24CN (PHOTO TAKEN 1991)

222-S LABORATORY COMPLEX DANGEROUS AND MIXED WASTE STORAGE AREA



Metal Storage Structure Internal View

46°32'02" 119°37'12"

91022217-27CN (PHOTO TAKEN 1991)

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Hanford Central Waste Complex Rev. 2, 11/04/94, Page 1 of 44

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III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "TO4"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

S01, T04

The Hanford Central Waste Complex consists of a Waste Receiving and Processing (WRAP) unit and storage units for mixed waste. The WRAP unit will provide central and mobile treatment units capable of treating up to 16,578,300 liters (4,379,500 gallons) per year of mixed waste in accordance with applicable codes and regulations. Treatment will include the absorption and solidification of free liquids, and the neutralization of corrosive materials. Mixed waste that is managed includes low-level waste (LLW) and transuranic waste (TRU). There is mixed waste stored temporarily on the Mixed Waste Storage Pad awaiting transfer when storage capacity becomes available in the mixed waste storage units. The mixed waste accepted for storage is managed in mixed waste storage units comprised of compliant storage structures. Waste that has less than 100°F flash point (ignitable) will be stored in the Low Flash Point Storage units. The storage design capacity for all the mixed waste storage units is 22,710,000 liters (5,999,300 gallons). The treatment design capacity for the storage units is included in the total identified for the WRAP unit. The treatment design capacity for WRAP is estimated to be 45,420 liters (12,000 gallons) per day of mixed waste.

IV. DESCRIPTION OF DANGEROUS WASTES

- A. DANGEROUS WASTE NUMBER Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE C	ODE
POUNDS		KILOGRAMS	

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- 1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corresive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

			_		T														 	D. PROCESSES
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X-4	٥	0	0	1	?					7 0	3	D	8	10		T				included with above

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January States

Description of Dangerous Wastes Section (Pages 3 through 18 of 44) Section of Dangerous Wastes Section (Pages 3 through 18 of 44) Section Pages 4 through 18 of 44) Sectio	1	МВЕ	R /	anta	red from page 1)	The -f	01	-l-ow	ina	"	Des	cri	oti	on	٥f	Dai	ngerous Wastes" section (Pages 3
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Hanford Central Waste Complex Rev. 2, 11/04/94, Page 4 of 44

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Hanford Central Waste Complex Rev. 2, 11/04/94, Page 6 of 44

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Hanford Central Waste Complex Rev. 2, 11/04/94, Page 21 of 44

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ECL30 - 271 -ECY 030-31 Form 3

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Rev. 2, 11/04/94, Page 23 of 44 Continued from page 2.

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NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

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Hanford Central Waste Complex Rev. 2, 11/04/94, Page 31 of 44 Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) W A 7 8 9 0 0 0 8 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE (enter code) L N DANGEROUS N O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (enter code) T 1 S01 P 0 0 1 K T04 Treatment/Storage 500 2 P 0 0 2

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Hanford Central Waste Complex Rev. 2, 11/04/94, Page 34 of 44

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) W A 7 8 9 0 0 0 B 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE (enter code) N DANGEROUS O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (enter code) K P 0 9 500 Ť04 501 Treatment/Storage 2 0 9 P 3 3 Р 0 9 4 lР ol 9 5 5 Р 0 9 6 6 Þ 9 7 0 7 P 9 8 10 Р 9 0 9 \top р 1 0 1 10 P 2 0 1 ĺΡ 3 1 0 12 Р 0 4 13 P 0 5 1 \Box 14 ŀР 1 0 6 16 |P|10 7 16 р 1 0 8 17 P | 1 0 9 18 P 1 1 0 Т $P \mid 1$ 1 1 20 Р 2 1 1 21 Ρ 1 3 1 22 ļΡ 1 4 1 23 P 1 1 5 24 P|11 6 25 p 1 1 8 26 P 9

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Hanford Central Waste Complex Rev. 2, 11/04/94, Page 36 of 44

Continued from the front.

IV. DESCRIPTION OF DANGEROUS WASTES (CONTINUE		
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waste generated from Facility. Waste conscious characteristic waste, dangerous waste). Mu	ed at the Hanford Central Was various operations both on an ists of listed waste, waste f and state-only waste (extrem Iti-source leachate (F039) is fic source wastes F001 throug	nd off the Hanford from nonspecific sources, nely hazardous and s included as a waste
V. FACILITY DRAWING All existing facilities must include in the space provided	on page 5 a scale drawing of the facility (see instru	uctions for more detail).
VI. PHOTOGRAPHS		
		ctures; existing storage, treatment and disposal areas; and
VII. FACILITY GEOGRAPHIC LOCATION LATITUDE (degrees, minutes, & se	This information is provided on the	e attached drawings and photos. LONGITUDE (degrees, minutes, & seconds)
		CONSTRUCTE (actives), functes, a seconds)
VIII. FACILITY OWNER		
X A. If the facility owner is also the facility operator a below.	s listed in Section VII on Form 1, "General information	on", place an "X" in the box to the left and skip to Section IX
B. If the facility owner is not the facility operator as	। listed in Section VII on Form 1, complete the follow	ving items:
1. NAME	OF FACILITY'S LEGAL OWNER	2, PHONE NO, (area code & no.)
		
3, STREET OR P.O. BOX	4. CITY OR TOWN	N 5. ST. 6. ZIP CODE
IX. OWNER CERTIFICATION	what and are funding with the information submitted	d in this and all attached documents, and that based on my
inquiry of those individuals immediately responsible for o there are significant penalties for submitting false inform	Obtaining the information, I believe that the submitte	d information is true. accurate, and complete. I am aware that
NAME (print or type) John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	Try V. Wagona	DATE SIGNED
X. OPERATOR CERTIFICATION		
I certify under penalty of law that I have personally exam inquiry of those individuals immediately responsible for o there are significant penalties for submitting false inform	nined/and am familiar with the information submitted btening the information, I believe that the submitted ation, including the possibility of fine and imprisonm	d in this and all attached documents, and that based on my d information is true, accurate, and complete. I am eware that ment.
NAME (print or type)	SIGNATURE	DATE SIGNED
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Hanford Central Waste Complex Rev. 2, 11/04/94, Page 37 of 44

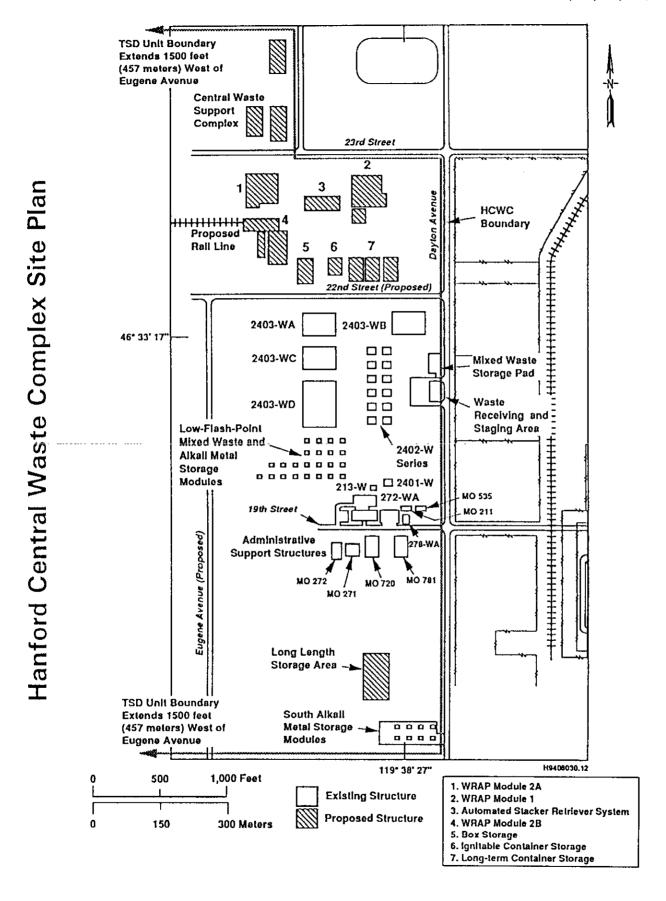
X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar ${\bf r}$ with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Wagonn John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office

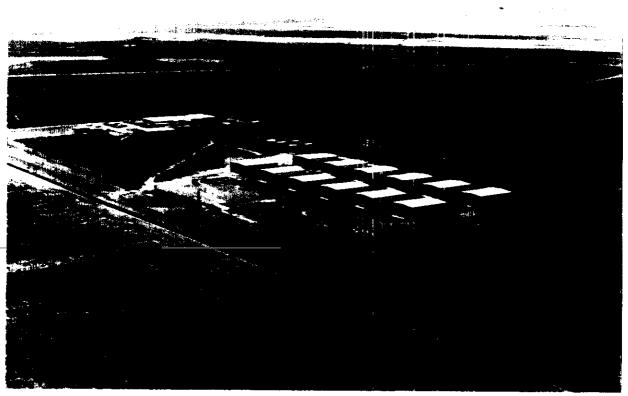
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A. LaMar Trego, President Westinghouse Hanford Company 9/20/94 Date



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HANFORD CENTRAL WASTE COMPLEX AERIAL VIEW

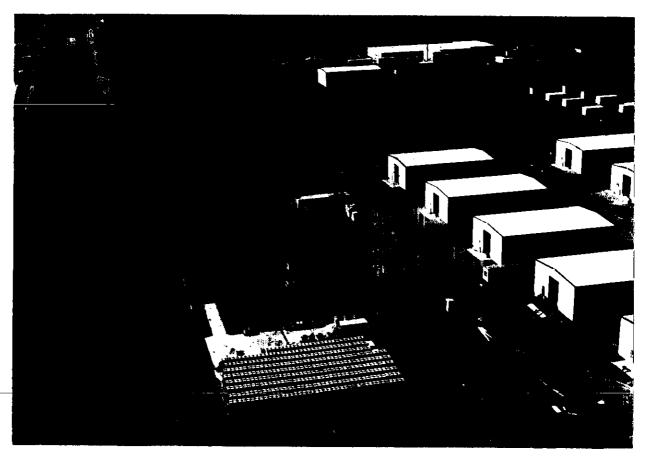


[Photograph does not reflect recent construction; HCWC Site Plan (Page 38 of 44) shows current site development.]

46°33'17" 119°38'27" 90041251-5CN (PHOTO TAKEN 1990)

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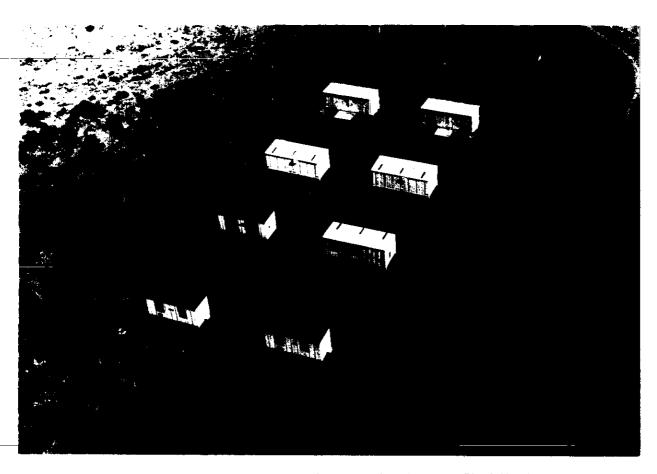
HANFORD CENTRAL WASTE COMPLEX AERIAL VIEW - WASTE UNLOADING AND STAGING AREA PAD AND MIXED WASTE STORAGE PAD



[Photograph does not reflect recent construction; HCWC Site Plan (Page 38 of 44) shows current site development.]

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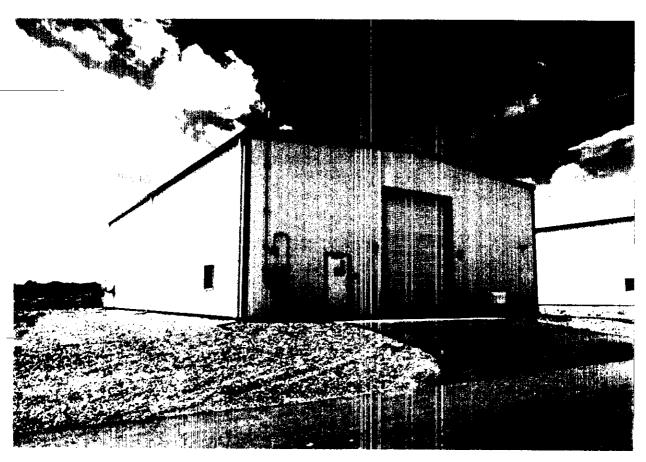
HANFORD CENTRAL WASTE COMPLEX AERIAL VIEW - LOW FLASH POINT STORAGE BUILDINGS



[Photograph does not reflect recent construction; HCWC Site Plan (Page 38 of 44) shows current site development.]

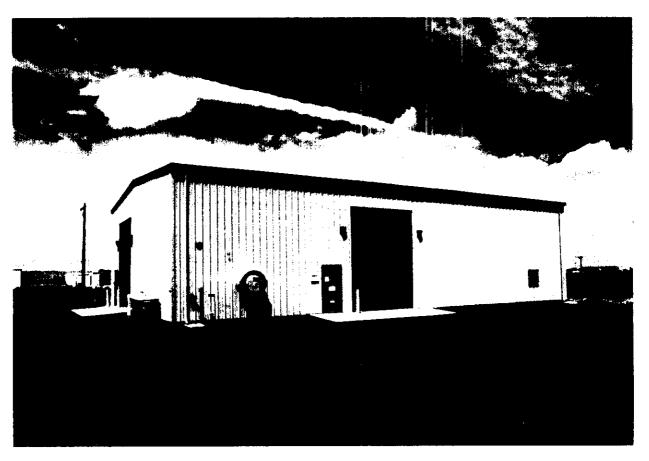
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HANFORD CENTRAL WASTE COMPLEX MIXED WASTE STORAGE BUILDING - TYPICAL



46°33'17" 119°38'27" 90061110-26CN (PHOTO TAKEN 1990)

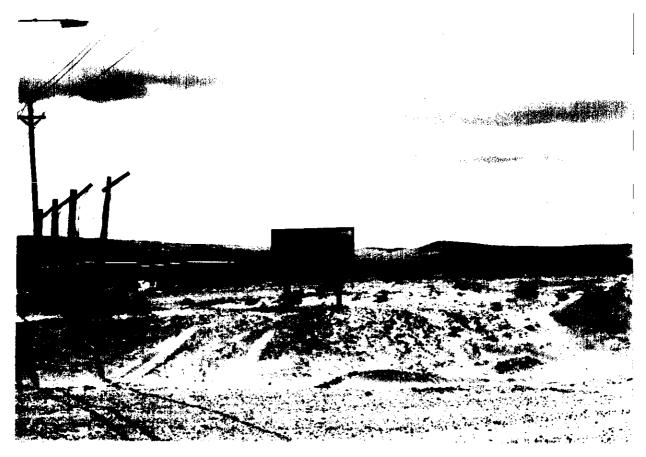
HANFORD CENTRAL WASTE COMPLEX Pu/PCB STORAGE BUILDINGS



46°33'17" 119°38'27"

90061110-44CN (PHOTO TAKEN 1990)

HANFORD CENTRAL WASTE COMPLEX WASTE RECEIVING AND PROCESSING FACILITY (WRAP) - PROPOSED VIEW



[Photograph does not reflect recent construction; HCWC Site Plan (Page 38 of 44) shows current site development.]

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111	PRACE	CCFC	(continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "TO4"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

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REFER TO ATTACHED

IV. DESCRIPTION OF DANGEROUS WASTES

- A. DANGEROUS WASTE NUMBER Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis.

 For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column 8 enter the unit of measure code. Units of measure which must be used and the appropriate codes

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS		KILOGRAMS METRIC TONS	

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1 PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THÂN ONE DÂNGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

	Т				Τ				Т												D. PROCESSES
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X-4	D	0	0	2					1	7	٦.	3 .	σŢ	8	0	1	Ţ	1	1	T	included with above

III. C., PROCESSES

The T Plant Complex (T Plant) is located in the 200 West Area of the Hanford Facility and consists of two structures, the 221-T Building (221-T) and the 2706-T Building (2706-T), and various support structures and/or storage pads within T Plant. The 221-T and 2706-T buildings are used for the storage (tank, container, and miscellaneous equipment) and treatment (tank, container, and decontamination activities) of mixed waste before transfer to the Double-Shell Tank (DST) System and/or the Central Waste Complex (CWC). The various support structures and/or storage pads are used for storage and treatment of mixed and/or dangerous waste until processed and transferred to the CWC and/or the 616 Nonradioactive Dangerous Waste Storage Facility (616 NRDWSF). The storage buildings located outside the 2706-T Building also are used to store containerized mixed and/or dangerous waste until transferred to the CWC and/or 616 NRDWSF. The following are the storage and treatment processes for T Plant.

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S02

Liquid mixed waste from decontamination activities within the 221-T is transferred to a tank system consisting of five stainless steel storage tanks: tank 5-6 [4,600 gallons (17,400 liters) design capacity], tank 5-7 [10,000 gallons (38,000 liters) design capacity], tank 5-9 [4,800 gallons (18,200 liters) design capacity], tank 11-R [14,000 gallons (53,000 liters) design capacity], and tank 15-1 [14,000 gallons (53,000 liters) design capacity] located in reinforced concrete cells within 221-T. Tanks 5-6, 5-7, 5-9, and 11-R are used for secondary storage of liquid mixed waste and tank 15-1 is used for primary storage of liquid mixed waste. The maximum storage process design capacity of the five storage tanks is 47,400 gallons (179,600 liters).

Liquid mixed waste from decontamination activities at the 2706-T currently is transferred by underground pipeline to the 221-T tank system for storage until transferred to the DST System. In a future process, the liquid mixed waste from the decontamination activities at 2706-T will be stored in two proposed double-walled stainless steel tanks that will be located on the northside of 2706-T. The underground pipeline to the 221-T tank system will be used as a backup for these proposed storage tanks. Each 2706-T tank will have a process design capacity of 15,000 gallons (57,000 liters) for a maximum storage process design capacity of 30,000 gallons (114,000 liters).

The maximum storage process design capacity for the liquid mixed waste storage tanks at the 221-T and 2706-T is 77,400 gallons (293,600 liters).

<u>T01</u>

The liquid mixed waste stored in the 221-T (tank 15-1) normally is transferred by railroad car to the DST System. If the liquid mixed waste is transferred by underground pipelines, tank 15-1 is used to treat the liquid mixed waste to a pH greater than 12.0 before transfer to the DST System. This treatment process makes the liquid mixed waste more amenable for storage in the DST System. The maximum treatment process design capacity for tank 15-1 is 14,000 gallons (53,000 liters) per day.

III. C., PROCESSES (Continued)

<u>T04</u>

The decontamination activities (treatment) are performed within the following structures within T Plant.

Chellant 1

The decontamination activities occur in 221-T in equipment referred to as thimbles and troughs, which are located in the canyon on the cell blocks over cells 11-R and 15-R. There are three stainless steel thimbles: thimble 1 is a 2,000 gallon (7,600 liter) open top tank with a tube section recessed through the cover block over cell 11-R; thimble 2 is a 300 gallon (1,200 liter) square open top tank with a tube section recessed in the cover block over cell 15-R; and thimble 3 is a 332 gallon (1,300 liter) open top tank with a tube section recessed in the cover block over cell 15-R. There are three stainless steel rectangular troughs: trough 1 is 18 feet (5.5 meters) long by 2 feet (0.6 meter) wide by 3 feet (0.9 meter) high; trough 2 is 8 feet (2.4 meters) long by 4 feet (1.2 meters) wide by 4 feet (1.2 meters) high; and trough 3 is 12 feet (3.7 meters) long by 8 feet (2.4 meters) wide by 4 feet (1.2 meters) high. The decontamination activities consist of decontaminating process equipment (i.e., pipelines, jumpers), various pieces of equipment (i.e., pumps, motors, damaged tools, etc.), and other discarded materials for recycle or disposal on the Hanford Facility. The decontamination process consists of placing equipment in the thimbles, troughs, or designated areas on the canyon deck and using air, steam, water, chemicals, and/or other methods to remove the contamination. The liquid mixed waste generated by this process is transferred to the 221-T tank system and then to the DST System. Solid mixed waste generated by this decontamination process (i.e., air blasting) is placed in U.S. Department of Transportationapproved containers for storage until transferred to the CWC.

The decontamination activities in the 2706-T occur over railroad and automotive pits located within the building. The railroad pit is 55 feet (16.9 meters) long by 17 feet (5.2 meters) wide by 6 feet (1.8 meters) deep. The automotive pit is 30 feet (9.1 meters) long by 4 feet (1.2 meters) wide by 6 feet (1.8 meters) deep. The 2706-T is used to decontaminate railroad equipment, buses, trucks, automobiles, cranes, earth moving equipment, and large pieces of plant process equipment by using air, steam, water, chemicals, and/or other methods to remove the contamination. The liquid mixed waste generated by this process is collected in the railroad pit, transferred to the 221-T tank system, and then to the DST System. Solid mixed waste generated by this decontamination process (i.e., air blasting) is placed in U.S. Department of Transportation-approved containers for storage until transfer to the CWC.

The maximum treatment process design capacity for 221-T and 2706-T is 2 tons (1.8 metric tons) per hour.

III. C., PROCESSES (Continued)

S01, T04

The storage and treatment of the dry and liquid mixed and/or dangerous waste in various sized containers will occur in the railroad tunnel, on the canyon deck and in various cells within the 221-T, and in support structures and/or storage pads located within the boundaries of T Plant. Container storage capability at T Plant is required because of the need to complete laboratory analysis and characterization of mixed and/or dangerous waste samples before transferring the waste containers to the CWC and/or 616 NRDWSF. The treatment capability is needed in the event that it is necessary to add adsorbent or neutralize the contents of a container before transfer.

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The maximum storage process design capacity is 200,000 gallons (758,000 liters) and the maximum treatment process design capacity is 1,000 gallons (3,800 liters) per day.

\$05

The designation SO5 (storage miscellaneous) is used to indicate that solid mixed waste stored on the canyon deck and in various cells is considered to be stored in a containment building subject to the requirements of 40 CFR 265, Subpart DD, rather than a waste pile subject to the requirements of 40 CFR 265, Subpart L. The solid mixed waste consists of low-level process equipment, jumpers, and various other materials that has the potential to go through the decontamination process.

The maximum storage process design capacity on the canyon deck and in the cells is 46,000 cubic yards (35,200 cubic meters).

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T Plant Complex Rev. 3, 11/04/94, Page 6 of 39 Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) W A 7 8 9 0 0 0 8 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) --- DT PROCESSES C. UNIT OF MEA-SURE (enter code) L N DANGEROUS N O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION lif a code is not entered in D(1)) (enter code) P **†04** Storage-Tank/Treatment-Tank-Other T01 D 0 0 1 279,000,000 (Decontamination Activities) 2 2 D 0 0 0 3 D 0 מו ٥ 0 4 5 0 ם ו 0 5 6 1010 0 6 \top 7 DOO 7 blolo 8 D | O | O 9 0 d 1 0 11 D 0 1 1 12 D 0 1 8 13 יס (מ 9 1 D 0 2 2 15 D 0 2 8 סום 2 9 17 D 3 10 0 18 D 0 3 3 ijΠ TT 19 3 D 0 4 20 D 3 5 0 $\mathsf{I}\mathsf{I}\mathsf{I}$ 21 b 3 l٥ 6 ď 3 10 8

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T Plant Complex Rev. 3, 11/04/94, Page 7 of 39

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5 W P O 2						
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T Plant Complex Rev. 3, 11/04/94, Page 8 of 39

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Rev. 3, 11/04/94, Page 13 of 39

Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER lentered from page 1) W A 7 B 9 0 0 0 8 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES L N DANGEROUS N O WASTE NO. C. UNIT OF MEA-SURE fenter B. ESTIMATED ANNUAL QUANTITY OF WASTE 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) 1. PROCESS CODES (enter) (enter code) code) So] P Ť04 Storage-Container/Treatment-Other U | 0 | 9 | 1 0 9 (Continued) ŢĪ 0 9 4 0 9 \mathbf{T} U ا٥ا 0 9 [] T U TTT1 2 3 1 1

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IV. DESCRIPTION OF I	DANGEROUS WASTES (continue	d)						D. PROCESSES			
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⁸ U 1 5 4			1 1	,		, I I					
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¹⁶ U 1 6 2						1 1					
¹⁷ U 1 6 3			1 1				1 1				
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ECL30 - 271 - ECY	030-31 Form 3			PAGE	3	OF 5		CONTINUE ON REVERSE			

January Care T Plant Complex Rev. 3, 11/04/94, Page 15 of 39 Continued from page 2. page before completing if you have more than 26 wastes to list.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. 1.D. NUMBER (entered from page 1)																
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ECY 030-31 Form 3

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T Plant Complex Rev. 3, 11/04/94, Page 17 of 39

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IV.	IV. DESCRIPTION OF DANGEROUS WASTES (continued)																						
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	IV. DESCRIPTION OF DANGEROUS WASTES (continued)															
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T Plant Complex Rev. 3, 11/04/94, Page 22 of 39

Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) WA7890008967 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE (enter L N DANGEROUS N O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) 1. PROCESS CODES (enter) (enter code) D 0 0 5 P **S05** Storage-Miscellaneous (Containment Building) (Continued) 2 D 0 0 6 D 00 D lolo 8 5 D 1010 9 6 D. 0 1 0 7 D 0 1 D 0 8 1 1 9 D 0 10 d 0 2 2 11 D 0 2 8 D 0 2 9 13 0 0 3 0 0 3 מו 3 15 Ó 3 D 4 16 3 ם 0 5 17 D 0 3 6 18 ַ סו 0 3 8 19 3 lo i di 9 20 D 0 4 0 21 D 0 4 1 22 0 4 3 D 23 W Т 0 1 24 WLT ١٥ 2 25 W C 0 2 26

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Rev. 3, 11/04/94, Page 23 of 39 Continued from page 2. NOTE: Photocopy this page before completing if you have more than 26 wastes to list. 1.D. NUMBER (entered from page 1) W A 7 8 9 0 0 0 8 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE (enter code) N DANGEROUS O WASTE NO. B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (enter code) W P 0 2 P Storage-Miscellaneous 2 (Containment Building) (Continued) F 0 0 1 Flolo F 0 0 3 F 0 0 4 F 0 0 5 7 F 0 3 9 Included With Above 8 9 10 11 12 13 15 16 17 18 19 20 21 22 23 24

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26

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The T Plant Complex is used for the storage and treatment of mixed waste and/or dangerous waste. The mixed waste is transferred to the Double-Shell Tank System and/or Central Waste Complex. The dangerous waste is transferred to the 616 Nonradioactive Dangerous Waste Storage Facility.

The dangerous waste numbers identified in Section IV.A. are associated with mixed and/or dangerous waste that could be stored and/or treated at T Plant. The mixed and/or dangerous waste consists of listed waste, characteristic waste, waste from nonspecific sources, toxicity characteristic waste, and state-only waste (extremely hazardous and dangerous waste). Multi-source leachate (FO39) is included as a waste derived from nonspecific source wastes FOOI through FOO5.

The estimated annual quantities of mixed waste listed for SO1, SO2, SO5, TO1, and TO4 and dangerous waste for SO1 and TO4 represent the maximum quantities of-dry and liquid waste that could be stored and treated at T Plant. Future operations might necessitate an increase in excess of these estimates and a revision could be pursued as required by the dangerous waste regulations.

· ·			•							
V. SACILITY CRAWING										
V. FACILITY DRAWING										
All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).										
VI. PHOTOGRAPHS		all aviation attack and aviation states	transment and disposal arrest and							
All existing facilities must include photographs leariel or ground-levell that clearly defineste all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).										
VII. FACILITY GEOGRAPHIC LOCATION Th	iis information is prov	ided on the attached dra-	wings and photos.							
LATITUDE (degrees, minutes, & seco.	nds)	LONGITUDE (degrees,	minutes, & seconds)							
	-		-							
VIII. FACILITY OWNER										
X A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.										
B. If the facility owner is not the facility operator as ils	B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following Items:									
1, NAME OF	FACILITY'S LEGAL OWNER		2. PHONE NO. (area code & no.)							
			<u>; </u>							
3, STREET OR P.O. BOX	4,	CITY OR TOWN 6.	ST. 6, ZIP CODE							
- L-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-										
IX. OWNER CERTIFICATION										
I certify under penelty of law that I have personelly examine inquiry of those individuals immediately responsible for obta there are significant penelties for submitting false information	ining the information, I believe th	at the submitted information is true, a								
NAME (print or type)	SIGNATUHE /	1	ATE SIGNED							
John D. Wagoner, Manager		/m	il Il cul							
U.S. Department of Energy Richland Operations Office	Tour Will	agour	1/14194							
X. OPERATOR CERTIFICATION	1/1000	10	**							
A. OPERATOR CERTIFICATION I certify under penelty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penelties for submitting false information, including the possibility of fine and imprisonment.										
NAME (print or type)	SIGNATURE	D	ATE SIGNED							

SEE ATTACHMENT

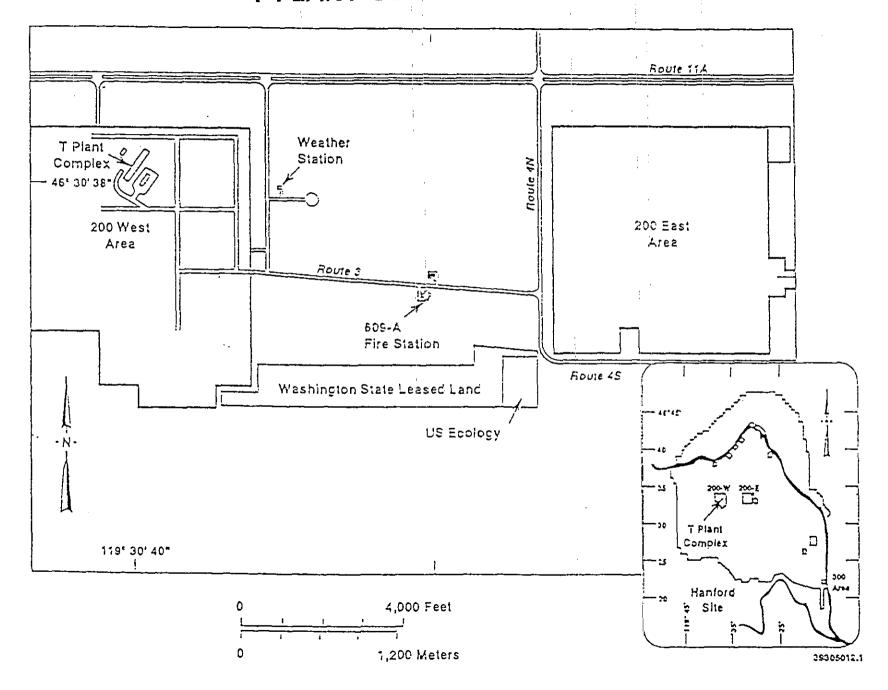
X. OPERATOR CERTIFICATION

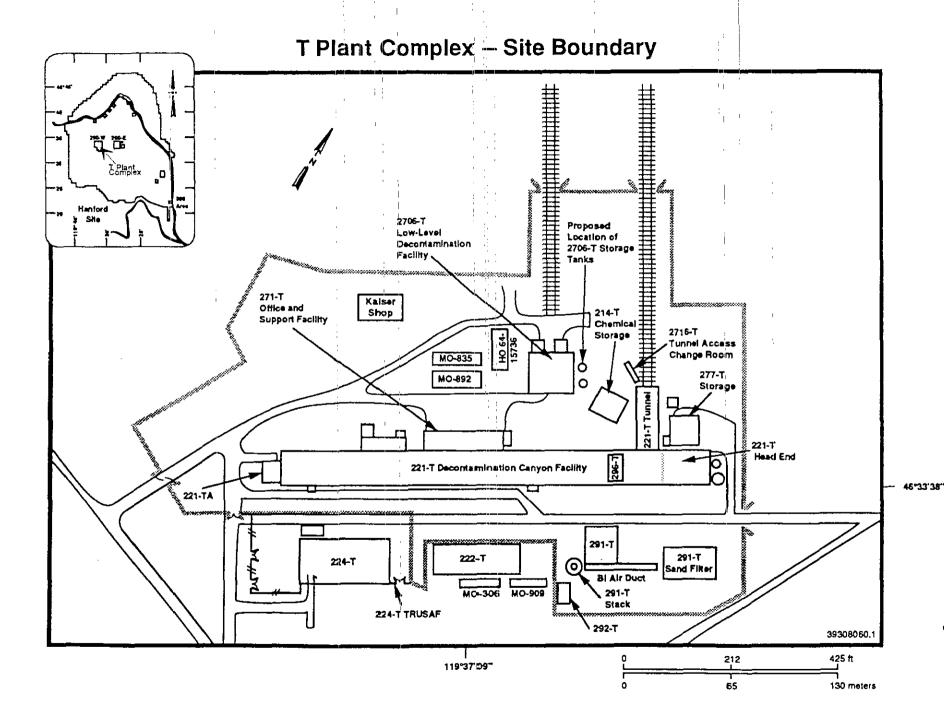
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

John D. Wagoner, Manager **b**.S. Department of Energy Richland Operations Office 11/4/94

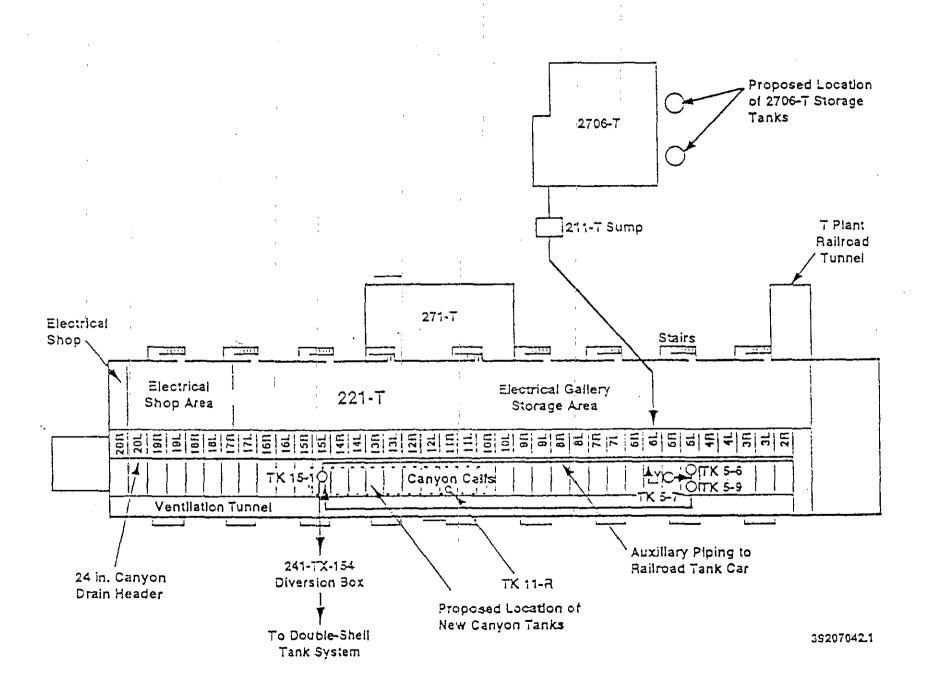
A. LaMar Trego, President Westinghouse Hanford Company

T PLANT COMPLEX SITE PLAN

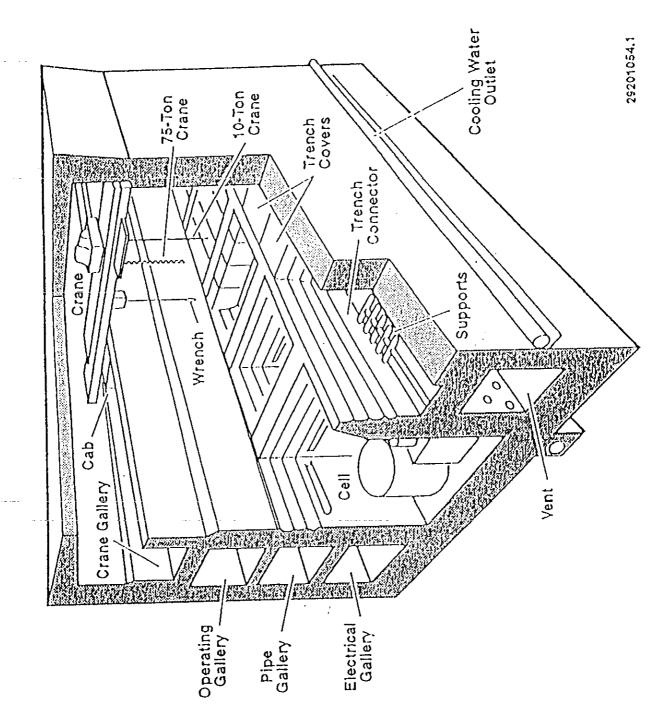




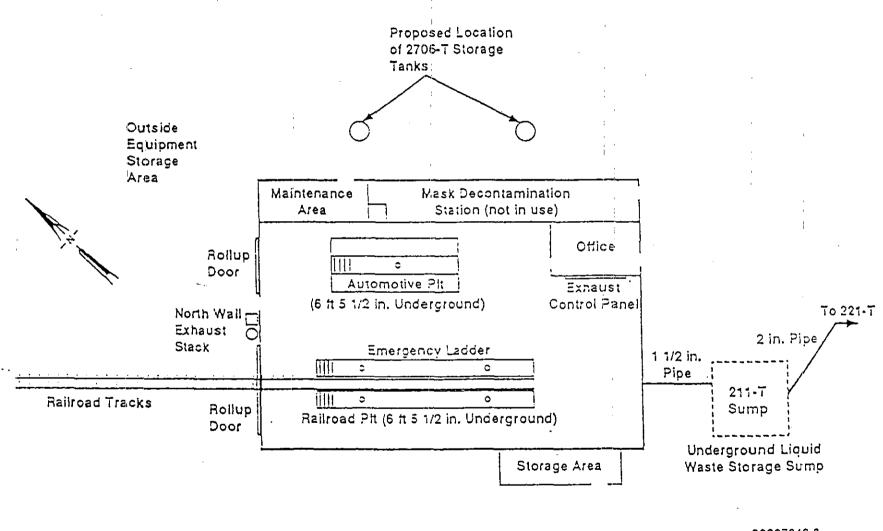
T PLANT COMPLEX - 221-T SITE PLAN



T PLANT COMPLEX - 221-T CUTAWAY



T PLANT COMPLEX - 2706-T SITE PLAN



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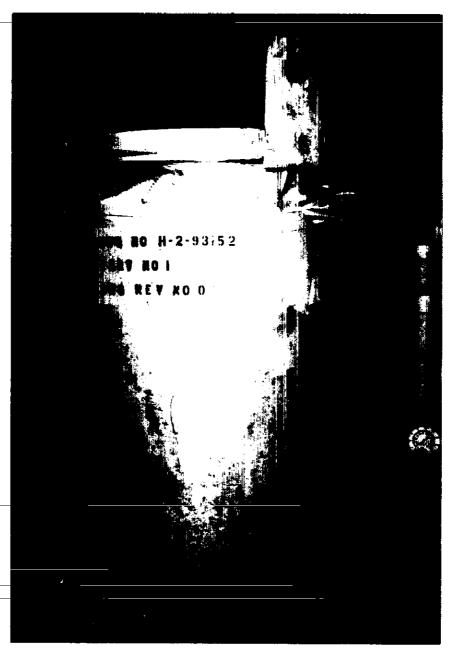
T PLANT COMPLEX AERIAL VIEW



221-T BUILDING

46°30'38" 119°30'40"

93030994-122CN (PHOTO TAKEN 1993)



TYPICAL THIMBLE

46°30'38"



TYPICAL THIMBLE INTERNAL VIEW

46°30'38" 119°30'40"

93051473-9CN (PHOTO TAKEN 1993)



TYPICAL TROUGH

46°30'38" 119°30'40"

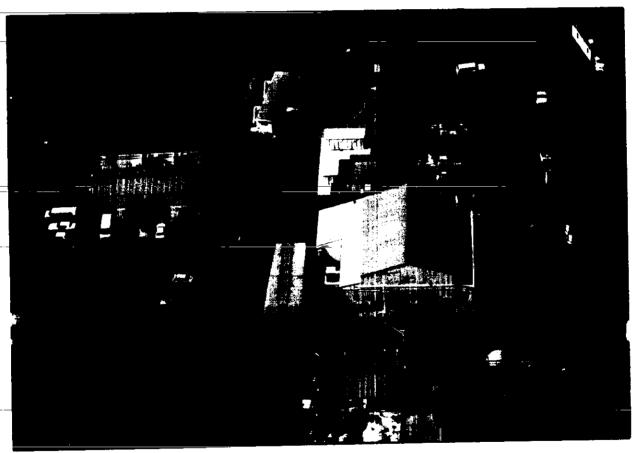
93060740-10CN (PHOTO TAKEN 1993)



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46°30'38" 119°30'40"

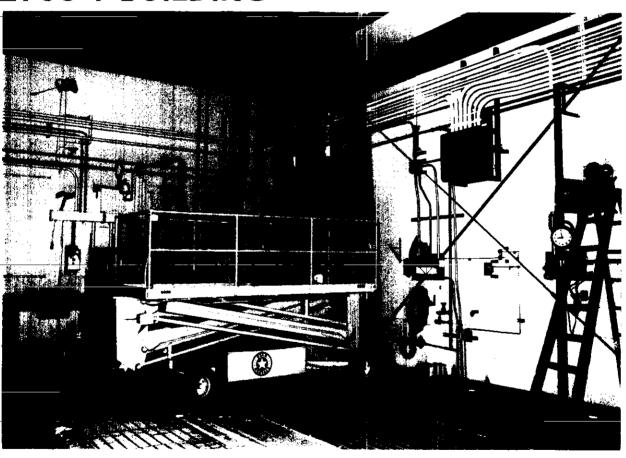
93051132-8CN (PHOTO TAKEN 1993)



AERIAL VIEW

46°30'38" 119°30'40"

93030994-257CN (PHOTO TAKEN 1993)



RAILROAD PIT

46°30'38" 119°30'40"

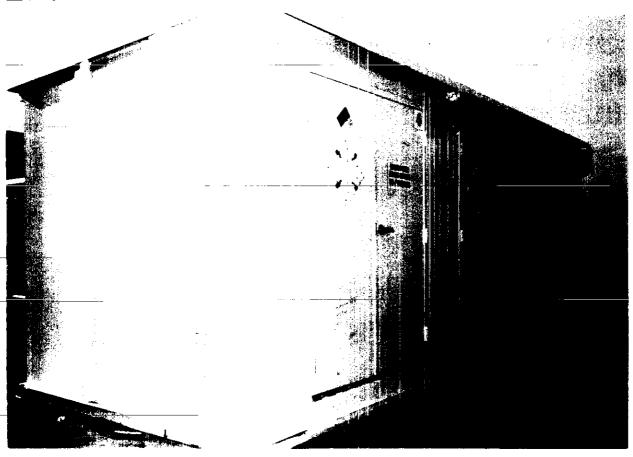
93040127-3CN (PHOTO TAKEN 1993)



AUTOMOTIVE PIT

46°30'38" 119°30'40"

93040127-2CN (PHOTO TAKEN 1993)



TYPICAL STORAGE BUILDING

46°30'38" 119°30'40" 93040127-13CN (PHOTO TAKEN 1993)